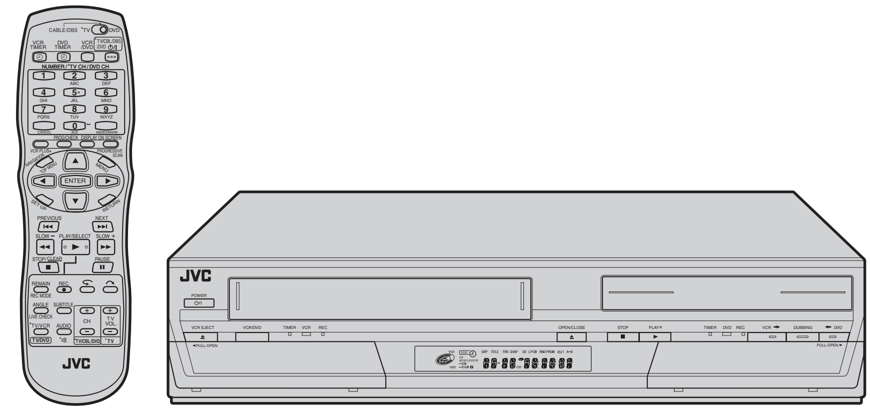
JVC

Preliminary

SERVICE MANUAL

DVD VIDEO RECORDER & VIDEO CASSETTE RECORDER

DR-MV1SUC, DR-MV1SUS



DR-MV1SUC, DR-MV1SUS [D3RV21]

For disassembling and assembling of MECHANISM ASSEMBLY, refer to the SERVICE MANUAL No.86700(MECHANISM ASSEMBLY).

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No.YD006
2004/4

SPECIFICATION

	DR-MV1SUC	DR-MV1SUS
GENERAL		
Power requirement	AC 120 V, 60 Hz	
Power consumption		
Power on	43 W	
Power off	16.5 W	
Temperature		
Operating	5°C to 35°C (41°F to 95°F)	
Storage	-20°C to 60°C (-4°F to 140°F)	
Operating position	Horizontal only	
Dimensions (W × H × D)	435 mm × 96 mm × 347 mm (17-3/16" × 3-13/16" × 13-11/16")	
Weight	6.1 kg (13.5 lbs)	
VIDEO/AUDIO (DVD Deck)		
Recording format	DVD-RAM: DVD Video Recording format DVD-R: DVD-Video format DVD-RW: DVD-Video format, DVD Video Recording format	
Recording time	Maximum 8 hours (with 4.7 GB disc) (XP): Approx. 1 hour, (SP): Approx. 2 hours, (LP): Approx. 4 hours (EP): Approx. 6 hours, (FR): Approx. 1 hour - 8 hours	
Audio recording system	Dolby Digital (2 ch), Linear PCM (XP mode only)	
Video recording compression system	MPEG2 (CBR/VBR)	
Input/Output		
S-video input	Y: 0.8 - 1.2 Vp-p, 75 Ω, C: 0.2 - 0.4 Vp-p, 75 Ω	
S-video output	Y: 1.0 Vp-p, 75 Ω, C: 0.3 Vp-p, 75 Ω	
Video input	0.5 - 2.0 Vp-p, 75 Ω (pin jack)	
Video output	1.0 Vp-p, 75 Ω (pin jack)	
Audio input	-8 dB, 50 kΩ (pin jack), Corresponding to mono (left)	
Audio output	-8 dB, 1 kΩ (pin jack)	
i.Link	4-pin for DV input	
Component video output	Y: 1.0 Vp-p, 75 Ω, CB/CR, PB/PR: 0.7 Vp-p, 75 Ω Corresponding to copy protection	
Digital audio output	Optical: -18 dBm, 660 nm, Coaxial: 0.7 Vp-p, 75 Ω, Corresponding to Dolby Digital and DTS Digital Surround Bit stream Selectable in digital audio output setting menu	
VIDEO/AUDIO (VCR Deck)		
Signal system	NTSC color signal and EIA monochrome signal, 525 lines/60 fields	
Recording system	DA4 (Double Azimuth) head helical scan system	
Format	VHS NTSC standard	
Maximum recording time		
(SP)	210 min. with ST-210 video cassette	
(EP)	630 min. with ST-210 video cassette	
Signal-to-noise ratio	45 dB	
Horizontal resolution	230 lines	
Frequency range	70 Hz to 10,000 Hz (Normal audio), 20 Hz to 20,000 Hz (Hi-Fi audio)	
Input/Output	RCA connectors: IN × 2, OUT × 1	
TUNER/TIMER		
Tuning system	Frequency synthesized tuner	
Channel coverage	VHF: Channels 2 - 13, UHF: Channels 14 - 69, CATV: 113 Channels	
RF output	Channel 3 or 4 (switchable; preset to Channel 3 when shipped) 75 Ω, unbalanced	
Memory backup time	Approx. 5 seconds	
ACCESSORIES		
Provided accessories	RF cable × 1, Infrared remote control unit, "AA" battery × 2	RF cable × 3, Antenna splitter, Infrared remote control unit, "AA" battery × 2

- Specifications shown are for SP mode unless otherwise specified.
- E.& O.E. Design and specifications subject to change without notice.
- VCR Plus+, C^3 and PlusCode are registered trademarks of Gemstar Development Corporation.
- The VCR Plus+ system is manufactured under license from Gemstar Development Corporation.
- DSS™ is an official trademark of DIRECTV, Inc., a unit of GM Hughes Electronics. DISH Network™ is a trademark of Echostar Communications Corporation.
- Manufactured under license from Dolby Laboratories. "Dolby" and the double-D symbol are trademarks of Dolby Laboratories.
- "DTS" and "DTS Digital Out" are trademarks of Digital Theater Systems, Inc.
- (i.Link) refers to the IEEE1394-1995 industry specification and extensions thereof. The logo is used for products compliant with the i.Link standard.

SECTION 1
PRECAUTION

1.1 SAFTY PRECAUTIONS

Prior to shipment from the factory, JVC products are strictly inspected to conform with the recognized product safety and electrical codes of the countries in which they are to be sold.However,in order to maintain such compliance, it is equally important to implement the following precautions when a set is being serviced.

1.1.1 Precautions during Servicing

(1) Locations requiring special caution are denoted by labels and inscriptions on the cabinet, chassis and certain parts of the product.When performing service, be sure to read and comply with these and other cautionary notices appearing in the operation and service manuals.

(2) Parts identified by the ⚠symbol and shaded ( ) parts are critical for safety.
Replace only with specified part numbers.

NOTE :
Parts in this category also include those specified to comply with X-ray emission standards for products using cathode ray tubes and those specified for compliance with various regulations regarding spurious radiation emission.

(3) Fuse replacement caution notice.
Caution for continued protection against fire hazard.
Replace only with same type and rated fuse(s) as specified.

(4) Use specified internal wiring. Note especially:
- Wires covered with PVC tubing
- Double insulated wires
- High voltage leads

(5) Use specified insulating materials for hazardous live parts. Note especially:
- Insulation Tape
- PVC tubing
- Spacers
- Insulation sheets for transistors
- Barrier

(6) When replacing AC primary side components (transformers, power cords, noise blocking capacitors, etc.) wrap ends of wires securely about the terminals before soldering.

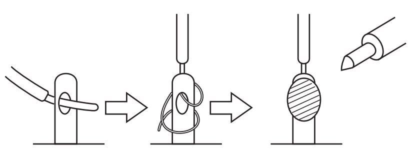


Fig.1-1-1

(7) Observe that wires do not contact heat producing parts (heatsinks, oxide metal film resistors, fusible resistors, etc.)

(8) Check that replaced wires do not contact sharp edged or pointed parts.

(9) When a power cord has been replaced, check that 10-15 kg of force in any direction will not loosen it.

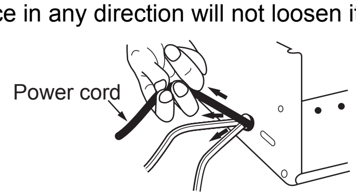


Fig.1-1-2

(10) Also check areas surrounding repaired locations.

(11) Products using cathode ray tubes (CRTs)In regard to such products, the cathode ray tubes themselves, the high voltage circuits, and related circuits are specified for compliance with recognized codes pertaining to X-ray emission. Consequently, when servicing these products, replace the cathode ray tubes and other parts with only the specified parts. Under no circumstances attempt to modify these circuits.Unauthorized modification can increase the high voltage value and cause X-ray emission from the cathode ray tube.

(12) Crimp type wire connectorIn such cases as when replacing the power transformer in sets where the connections between the power cord and power trans former primary lead wires are performed using crimp type connectors, if replacing the connectors is unavoidable, in order to prevent safety hazards, perform carefully and precisely according to the following steps.
- **Connector part number** :E03830-001
- **Required tool** : Connector crimping tool of the proper type which will not damage insulated parts.
- **Replacement procedure**

a) Remove the old connector by cutting the wires at a point close to the connector.Important : Do not re-use a connector (discard it).

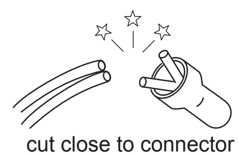


Fig.1-1-3

b) Strip about 15 mm of the insulation from the ends of the wires. If the wires are stranded, twist the strands to avoid frayed conductors.

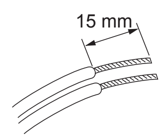


Fig.1-1-4

c) Align the lengths of the wires to be connected. Insert the wires fully into the connector.

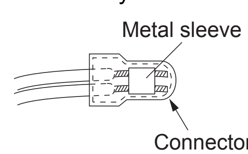


Fig.1-1-5

d) As shown in Fig.1-1-6, use the crimping tool to crimp the metal sleeve at the center position. Be sure to crimp fully to the complete closure of the tool.

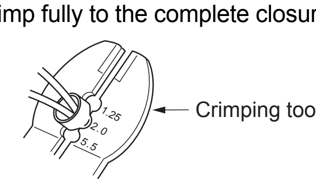


Fig.1-1-6

e) Check the four points noted in Fig.1-1-7.

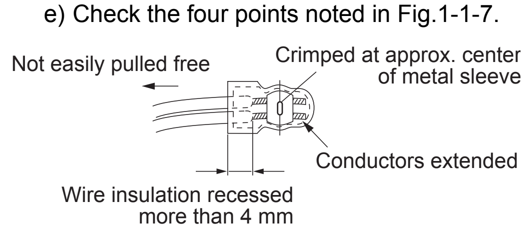


Fig.1-1-7

1.1.2 Safety Check after Servicing

Examine the area surrounding the repaired location for damage or deterioration. Observe that screws, parts and wires have been returned to original positions, Afterwards, perform the following tests and confirm the specified values in order to verify compliance with safety standards.

(1) Insulation resistance test
Confirm the specified insulation resistance or greater between power cord plug prongs and externally exposed parts of the set (RF terminals, antenna terminals, video and audio input and output terminals, microphone jacks, earphone jacks, etc.).See table 1 below.

(2) Dielectric strength test
Confirm specified dielectric strength or greater between power cord plug prongs and exposed accessible parts of the set (RF terminals, antenna terminals, video and audio input and output terminals, microphone jacks, earphone jacks, etc.). See Fig.1-1-11 below.

(3) Clearance distance
When replacing primary circuit components, confirm specified clearance distance (d), (d') between soldered terminals, and between terminals and surrounding metallic parts. See Fig.1-1-11 below.

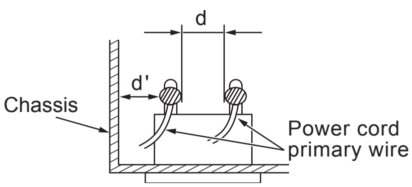


Fig.1-1-8

(4) Leakage current test
Confirm specified or lower leakage current between earth ground/power cord plug prongs and externally exposed accessible parts (RF terminals, antenna terminals, video and audio input and output terminals, microphone jacks, earphone jacks, etc.).
Measuring Method : (Power ON)Insert load Z between earth ground/power cord plug prongs and externally exposed accessible parts. Use an AC voltmeter to measure across both terminals of load Z. See Fig.1-1-9 and following Fig.1-1-12.

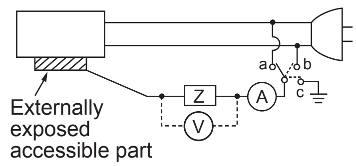
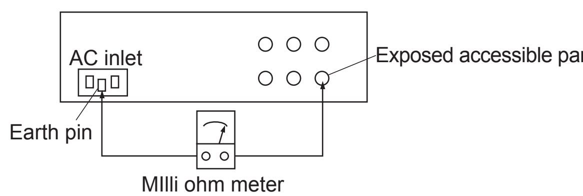


Fig.1-1-9

(5) Grounding (Class 1 model only)
Confirm specified or lower grounding impedance between earth pin in AC inlet and externally exposed accessible parts (Video in, Video out, Audio in, Audio out or Fixing screw etc.).Measuring Method:
Connect milli ohm meter between earth pin in AC inlet and exposed accessible parts. See Fig.1-1-10 and grounding specifications.



Grounding Specifications

Region	Grounding Impedance (Z)
USA & Canada	Z ≦ 0.1 ohm
Europe & Australia	Z ≦ 0.5 ohm

Fig.1-1-10

AC Line Voltage	Region	Insulation Resistance (R)	Dielectric Strength	Clearance Distance (d), (d')
100 V	Japan	R ≧ 1 MΩ/500 V DC	AC 1 kV 1 minute	d, d' ≧ 3 mm
100 to 240 V			AC 1.5 kV 1 minute	d, d' ≧ 4 mm
110 to 130 V	USA & Canada	1 MΩ ≦ R ≦ 12 MΩ/500 V DC	AC 1 kV 1 minute	d, d' ≧ 3.2 mm
110 to 130 V 200 to 240 V	Europe & Australia	R ≧ 10 MΩ/500 V DC	AC 3 kV 1 minute (Class Ⅱ) AC 1.5 kV 1 minute (Class Ⅰ)	d ≧ 4 mm d' ≧ 8 mm (Power cord) d' ≧ 6 mm (Primary wire)

Fig.1-1-11

AC Line Voltage	Region	Load Z	Leakage Current (i)	a, b, c
100 V	Japan	1 kΩ	i ≦ 1 mA rms	Exposed accessible parts
110 to 130 V	USA & Canada	0.15 μF, 1.5 kΩ	i ≦ 0.5 mA rms	Exposed accessible parts
110 to 130 V 220 to 240 V	Europe & Australia	2 kΩ	i ≦ 0.7 mA peak i ≦ 2 mA dc	Antenna earth terminals
		50 kΩ	i ≦ 0.7 mA peak i ≦ 2 mA dc	Other terminals

Fig.1-1-12

NOTE :

These tables are unofficial and for reference only. Be sure to confirm the precise values for your particular country and locality.

SECTION 2
SPECIFIC SERVICE INSTRUCTIONS

2.1 Service position

This unit has been designed so that the Mechanism and Main board assemblies can be removed together from the bottom chassis. Before diagnosing or servicing the circuit boards, take out the major parts from the bottom chassis.

2.1.1 How to set the "Service position"

(1) Refer to the disassembly procedure and perform the disassembly of the major parts before removing the Mechanism assembly.
(2) Remove the screws that fix the Mechanism, Main board assembly to the bottom chassis. If any other screws are used to fix the boards, remove them also.
(3) Remove the combined Mechanism, DVD unit, regulator, digital, junction and Main board assemblies.
(4) If any other major parts are used, remove them also.
(5) Connect the wires and connectors of the major parts that have been removed in steps (1) to (4). (Refer to Fig. 2-1a.)
(6) Place the combined Mechanism, Main board and other board assemblies upside down.
(7) Insert the power cord plug into the power outlet and then proceed with the diagnostics and servicing of the board assembly.

Notes:

- **Before inserting the power cord plug into the power outlet, make sure that none of the electrical parts are able to short-circuit between the workbench and the board assembly.**
- **For the disassembly procedure of the major parts and details of the precautions to be taken, see "Removing the major parts".**
- **If there are wire connections from the Main board and Mechanism assemblies to the other major parts, be sure to remove them (including wires connected to the major parts) first before performing step (2).**
- **When carrying out diagnosis and repair of the Main board assembly in the "Service position", be sure to ground both the Main board and Mechanism assemblies. If they are improperly grounded, there may be noise on the playback picture or FDP counter display may move even when the mechanism is kept in an inoperative status.**
- **In order to diagnose the playback or recording of the cassette tape, set the Mechanism assembly to the required mode before placing it upside down. If the mechanism mode is changed (including ejection) while it is in an upside down position the tape inside may be damaged.**
- **For some models, the mechanism and board assemblies are attached by connectors only. When carrying out a diagnosis or repair of the boards in the "Service position", make sure that the connectors are not disconnected.**

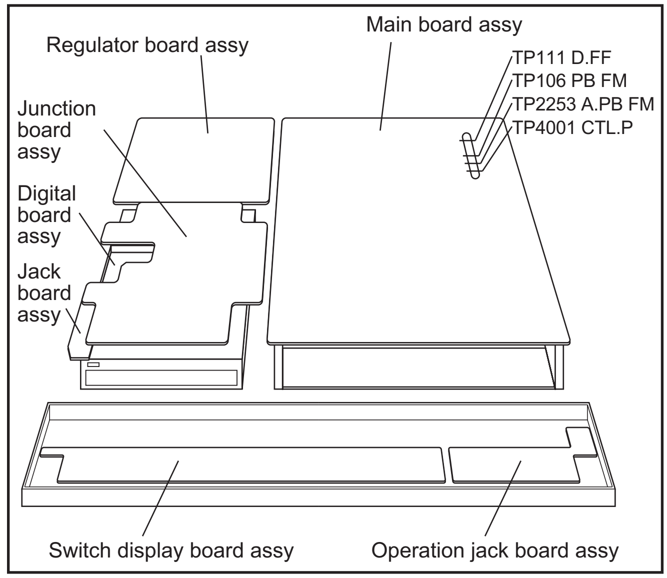


Fig.2-1a

2.2 Jig RCU mode

This unit uses the following two modes for receiving remote control codes.

(1) User RCU mode:Ordinary mode for use by the user.
(2) Jig RCU mode: Mode for use in production and servicing.

When using the Jig RCU, it is required to set the VCR to the Jig RCU mode (the mode in which codes from the Jig RCU can be received). As both of the above two modes are stored in the EEPROM, it is required to set the VCR back to the User RCU mode each time that an adjustment is made or to check that the necessary operations have been completed.These modes can be set by the operations described below.

Note:

- **When the unit is set to JIG mode and when the unit is under JIG mode, the remote control unit attached to product operates only in "Remote Control Code 1". Since the unit is in "Remote Control Code 3" when it is shipped and just after its batteries are changed, "Remote Control Code 3" needs to be changed to "Remote Control Code 1."**
- **Confirm the RCU mode when exchanged parts. Since some SERVICE PARTS sets the VCR to the Jig RCU mode as initial setting. Therefore please set the VCR to the user RCU mode after replacing the EEPROM.**

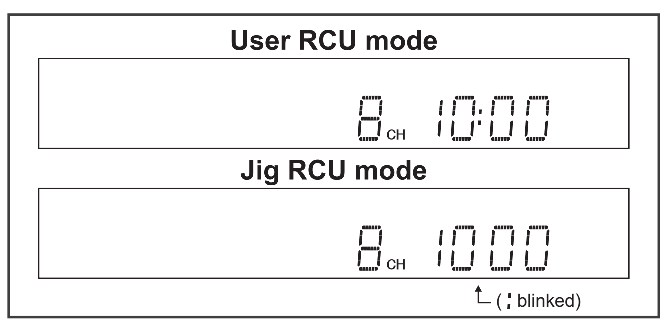


Fig.2-2a User/Jig RCU mode

2.2.1 Changing Remote Control Code
(1) Slide the TV/CABLE/DBS/DVD switch to DVD.
(2) Press the numeric button "1" of the remote control unit while pressing the "SET UP" button of the remote control unit. Then,press the "ENTER" button, and then release the "SET UP" button.
(3) Press the "POWER" button on the unit to turn off the unit.
(4) Press the "PLAY" button on the unit for over 5 seconds while the unit is turned off. The code currently set appears on the front display panel.
(5) Press the "STOP" button on the remote control to change the unit’s code. When FDP indicator displays "DVD1," it means that the Remote Control Code has been changed to "1."

2.2.2 Setting the Jig RCU mode
(1) Turn on the power.
(2) Press the “VCR/DVD“ button repeatedly on the unit so that the VCR lamp lights up on the unit.
(3) Press the following remocon keys continuously within 2 seconds " SET UP " → " 2 " → " 8 " → " ENTER ".
When the VCR is set to the Jig RCU mode, the symbols (" : ") in the time display of the FDP are blinked.
(Refer to Fig.2-2a User/Jig RCU mode)

2.2.3 Setting the User RCU mode
(1) Turn off the power.
(2) Press the "REC" and "PAUSE" buttons of the VCR simultaneously. Alternatively, transmit the code "9D" from the Jig RCU.

2.3 Mechanism service mode
This model has a unique function to enter the mechanism into every operation mode without loading of any cassette tape. This function is called the "Mechanism service mode".

2.3.1 How to set the "Mechanism service mode"
(1) Set the VCR to the Jig RCU mode (the mode in which codes from the Jig RCU can be received)
(2) Transmit the code "E5" from the Jig RCU.
(3) Release the lug of the Cassette holder and then slide the Cassette holder toward the direction where the Cassette holder is loaded by manually.
(4) The cassette holder lowers and, when the loading has completed, the mechanism enters the desired mode.
When the VCR is set to the Mechanism service mode, the symbols ("HDD") in the FDP (LED) are turned on.

2.3.2 How to exit from the "Mechanism service mode"
(1) Unplug the power cord plug from the power outlet.

2.4 Maintenance and inspection

2.4.1 Cleaning
Regular cleaning of the transport system parts is desirable but practically impossible. So make it a rule to carry out cleaning of the tape transport system whenever the machine is serviced.
When the video head, tape guide and/or brush get soiled, the playback picture may appear inferior or at worst disappear, resulting in possible tape damage.

Note:
- **Absolutely avoid sweeping the upper drum vertically as this will cause damage to the video head.**

(1) When cleaning the upper drum (especially the video head), soak a piece of closely woven cloth with alcohol and while holding the cloth onto the upper drum by the fingers, turn the upper drum counterclockwise.
(2) To clean the parts of the tape transport system other than the upper drum, use a piece of closely woven cloth or a cotton swab soaked with alcohol.
(3) After cleaning, make sure that the cleaned parts are completely dry before using the cassette tape.

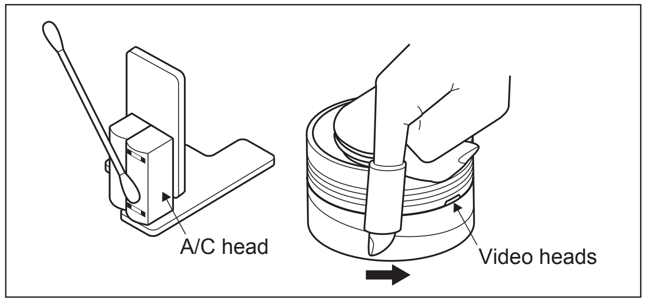


Fig.2-4a

2.4.2 Lubrication
With no need for periodical lubrication, you have only to lubricate new parts after replacement. If any oil or grease on contact parts is soiled, wipe it off and newly lubricate the parts.

Note:
- **See the "mechanism assembly" diagram of the "parts list" for the lubricating or greasing spots, and for the types of oil or grease to be used.**

2.4.3 Suggested servicing schedule for main components
The following table indicates the suggested period for such service measures as cleaning, lubrication and replacement. In practice, the indicated periods will vary widely according to environmental and usage conditions. However, the indicated components should be inspected when a set is brought for service and the maintenance work performed if necessary. Also note that rubber parts may deform in time, even if the set is not used.

System	Parts name	Operation hours	
		1000H	2000H
Tape transport	Drum assembly	C,X	X
	A/C head	C,X	C,X
	Pinch roller arm assembly	C	C
	Full erase head	C	C
	Tension arm assembly	C	C
	Capstan motor (Shaft)	C	C
	Guide arm assembly	C	C
Drive	Capstan motor		X
	Capstan brake assembly		X
	Main brake assembly		X
	Belt (Capstan)	X	X
	Loading motor		X
	Clutch unit		X
	Worm gear		X
	Control plate		X
Other	Rotary encoder		X

C : Cleaning
X : Inspection or Replacement if necessary

SECTION 3
DISASSEMBLY

3.1 Removing the major parts

3.1.1 Destination of connectors

Two kinds of double-arrows in connection tables respectively show kinds of connector/wires.

⇔ : Flat wire ↔ : Wire ⬌ : Board to board (B-B)

(shaded) : The connector of the side to remove

CONN. No.	CONNECTOR						PIN No.
WR2a	Main	CN101	⇔	Digital	CN761		40
WR2b	Main	CN103	⇔	Digital	CN762		10

■ **Destination of connectors**

CONN. No.	CONNECTOR					PIN No.
WR2a	Main	CN3104	⇔	Operation jack	CN7201	13
WR2b	Main	CN3102	⇔	Switch display	CN7001	11
WR2c	Junction	CN7103	⇔	Switch display	CN7002	4
WR3a	Main	CN2001	⇔	A/C head		6
WR3b	Drum assembly		⇔	Main	CN1	9
WR4a	DVD unit		⇔	Digital	CN2201	40
WR4b	DVD unit		↔	Regulator	CN5303	4
WR5a	Junction	CN7106	⇔	Digital	CN1404	4
CN7108 (CN1001)	Junction	CN7108	⬌	Digital	CN1001	28
CN7109 (CN1002)	Junction	CN7109	⬌	Digital	CN1002	28
CN4104 (CN1801)	Jack	CN4104	⬌	Digital	CN1801	10
WR7a	Junction	CN7104	⇔	Main	CN501	4
WR7b	Main	CN3103	⬌	Junction	CN7102	15
WR7c	Main	CN2601	⬌	Junction	CN8001	11
WR7d	Junction	CN7107	⇔	Main	CN7111	13
WR7e	Regulator	CN5304	⬌	Junction	CN5501	15
WR8a	Regulator	CN5301	⬌	Main	CN5311	15
WR8b	Regulator	CN5302	↔	Fun motor		2

3.1.2 How to read the procedure table

This table shows the steps for disassembly of the externally furnished parts and board assemblies. Reverse these steps when re-assembling them.

Step/ Loc No.	Part Name	Fig. No.	Point	Note
[1]	Top cover	3-1a	4(S1a),(S1b),3(L1a), 2(SD1a),(P1a),(W1a), CN1(WR1a),	<Note 1a>
	Bracket		2(S1c)	
(1)	(2)	(3)	(4)	(5)

(1) Order of steps in Procedure
When reassembling, perform the step(s) in the reverse order.
These numbers are also used as the identification (location) No. of parts Figures.
(2) Part name to be removed or installed.
(3) Fig. No. showing procedure or part location.
(4) Identification of part to be removed, unhooked, unlocked, released, unplugged, unclamped or unsoldered.
P= Spring, W= Washer, S= Screw, L= Locking tab, SD= Solder, CN**(WR**)= Remove the wire (WR**) from the connector (CN**).

Note:
- **The bracketed ( ) WR of the connector symbol are assigned nos. in priority order and do not correspond to those on the spare parts list.**

(5) Adjustment information for installation

3.1.3 Disassembly procedure

Step/ Loc No.	Part Name	Fig. No.	Point	Note
[1]	Top cover	3-1d	6(S1a)	
[2]	Front panel assembly (Operation jack board assembly) (Switch display board assembly)	3-1a, 3-1d	3(L2a),5(L2b) CN3104(WR2a) CN3102(WR2b) CN7103(WR2c)	<Note2a> <Note2b>
[3]	Mechanism assembly (Drum assembly) (Cleaner assembly)	3-1b, 3-1c, 3-1d	CN2001(WR3a) 3(S3a),(S3b) CN(WR3b) (S3c),(S3d),(S3e) 2(L3a)	<Note2a> <Note3a> <Note3b> <Note3c>
[4]	DVD unit (Bracket)	3-1d	4(S4a),4(S4b) (WR4a),(WR4b)	<Note2a>
[5]	Digital board assembly	3-1d	4(S5a) CN7106(WR5a),CN7101 (CN1001),CN7109(CN1002)	<Note2a>
[6]	Jack board assembly	3-1d	(S6a),CN4104(CN1801)	
[7]	Junction board assembly	3-1d	(S7a),CN7104(WR7a), CN3103(WR7b),CN2601 (WR7c),CN7107(WR7d), CN5304(WR7e)	<Note2a>
[8]	Regulator board assembly	3-1d	4(S8a) CN5301(WR8a), CN5302(WR8b)	<Note2a>
[9]	Rear cover	3-1d	2(S9a),5(S9b),2(S9c),3(L9a)	
[10]	Main board assembly	3-1d	3(S10a)	

<Note 2a>
- Be careful not to damage the connector and wire etc. during connection and disconnection.
- When connecting the flat wire to the connector, be careful with the flat wire direction.

<Note 2b>
- When reattaching the Front panel assembly, make sure that the door opener of the Side frame (R) is lowered in position prior to the reinstallation.
- When reattaching the Front panel assembly, pay careful attention to the switch lever of the Front panel assembly not to make it touch the switch knob of the Main board assembly from the side.
- When reattaching the Front panel assembly, lift the Cassette door slightly.

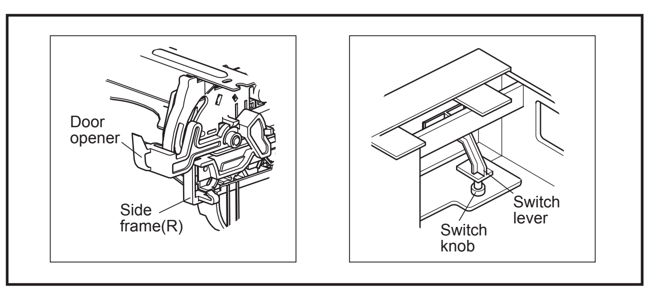


Fig.3-1a

<Note 3a>

- When reattaching the Mechanism assembly, secure the screws (S3a to S3b) in the order of 1,2,3.

<Note 3b>

- When reattaching the Mechanism assembly, be sure to align the phase of the Rotary encoder on the Main board assembly.
- When reattaching the Mechanism assembly, set the "Mechanism assembling mode". [See "MECHANISM ASSEMBLY SERVICE MANUAL (No. 86700)".]
- When reattaching the Mechanism assembly to the Main board assembly, take care not to damage the sensors and switch on the Main board assembly.

<Note 3c>

- When reattaching the Drum assembly, secure the screws (S3c to S3e) in the order of c, d, e.

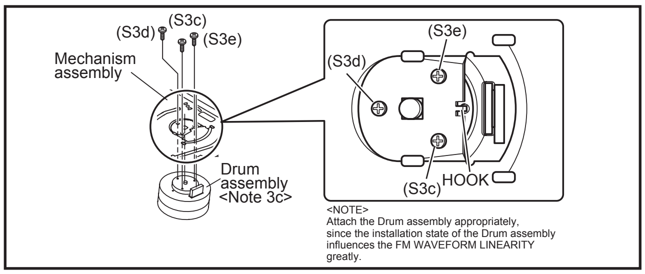


Fig.3-1b

- When handling the drum assembly alone, hold it by the motor or shaft. Be careful not to touch other parts, especially the video heads. Also take care not to damage the connectors.

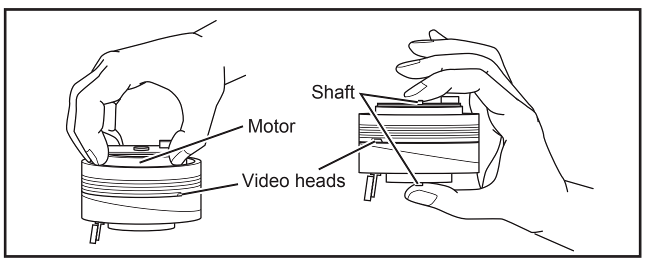
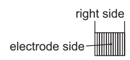


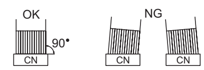
Fig.3-1c

NOTE

1.Insert direction of FCC WIRE as follows.



2.FFC WIRE and DRUM FPC WIRE should be insert as follows.

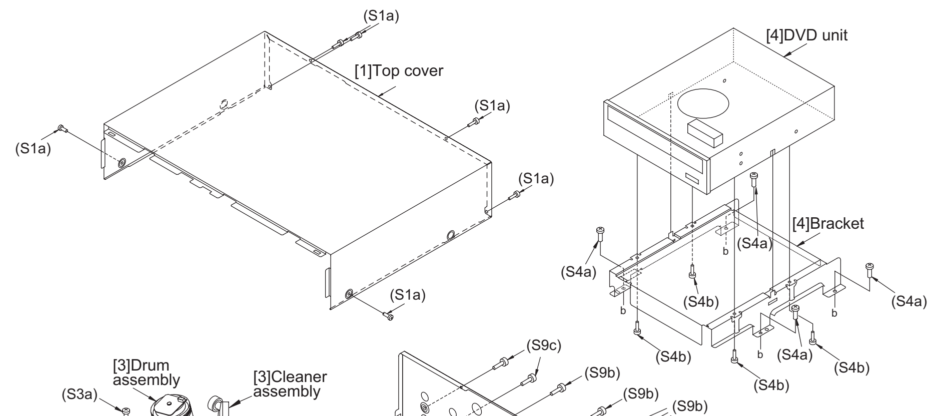


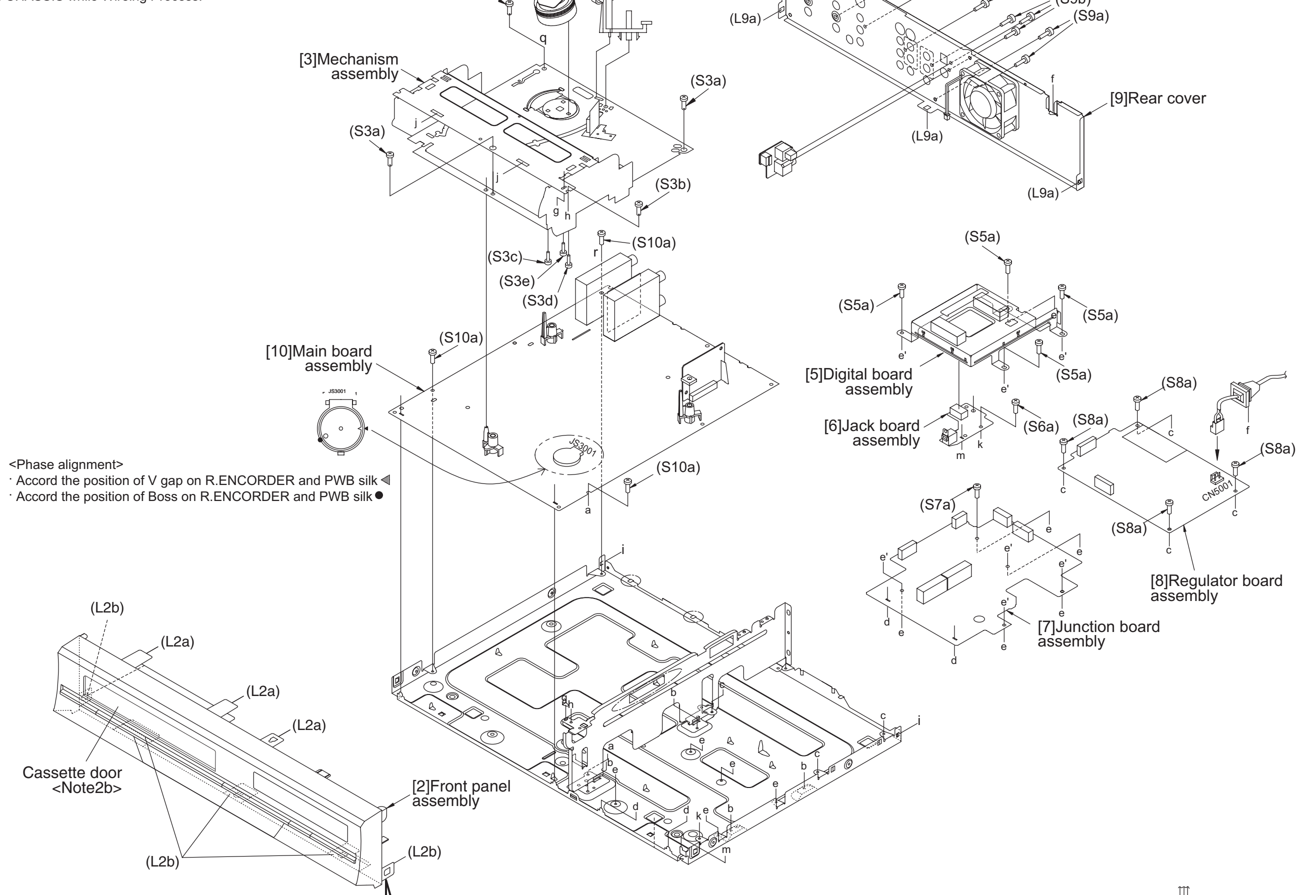
3.Insert the wire to even the root of connector completely at the same time as inserting each wire.

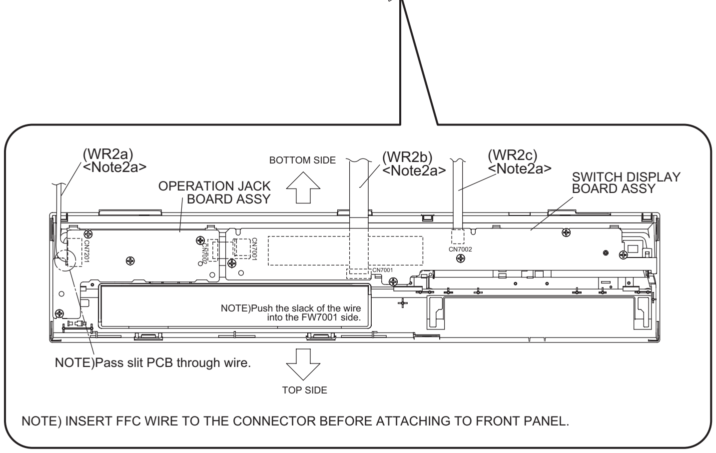
4.Check to see that outside parts.TOP COVER,BOTTOM COVER, FRONT PANEL, etc are fixed certainly to the BOTTOM CHASSIS with SCRWES.

5.Pay attention NOT to make any scratches on FRONT PANEL.

6.Pay close attention not to cut any Sheath of WIRE by sharp edge of CHASSIS while Wireing Process.







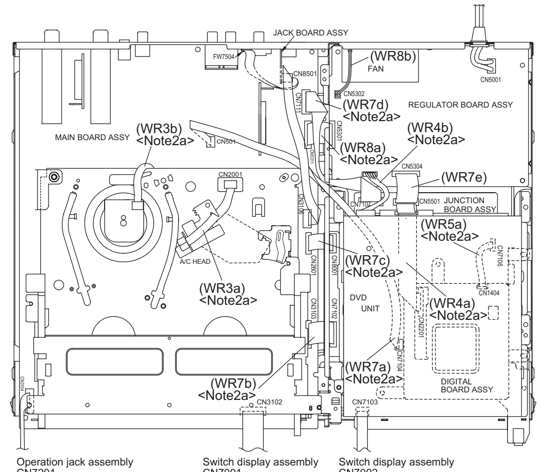


Fig.3-1d

SECTION 4
ADJUSTMENT

4.1 Before adjustment

4.1.1 Precaution

- **The adjustments of this unit include the mechanism compatibility and electrical adjustments. During the performance of this work, be sure to observe the precautions for each type of adjustment.**
- **If there is a reference to a signal input method in the signal column of the adjustment chart, “Ext. S-input” means the Y/C separated video signal and “Ext. input” means the composite video signal input.**
- **Unless otherwise specified, all measuring points and adjustment parts are located on the Main board.**

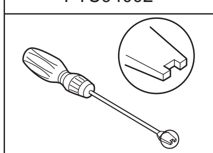
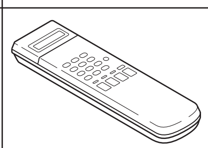
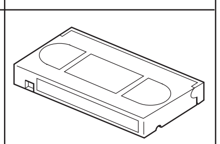
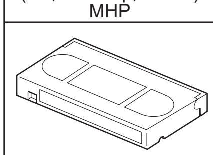
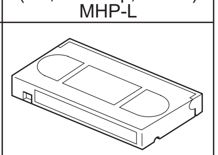
4.1.2 Required test equipments

- Color (colour) television or monitor
- Oscilloscope: wide-band, dual-trace, triggered delayed sweep
- Signal generator: RF / IF sweep / marker
- Signal generator: stairstep, color (colour) bar [NTSC]
- Recording tape
- Digit-key remote controller(provided)

4.1.3 Required adjustment tools

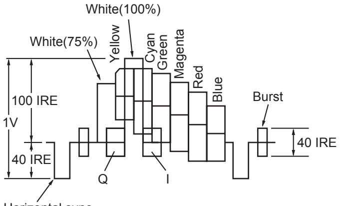
● : Used --- : Not used

	Mechanism compatibility adjustment	Electrical adjustment
Roller driver	●	---
Jig RCU	---	●
Back tension cassette gauge	●	---
Alignment tape(MHP)	●	---
Alignment tape(MHP-L)	●	●

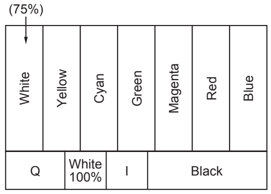
Roller driver PTU94002	Jig RCU PTU94023B	Back tension cassette gauge PUJ48076-2
		
Alignment tape (SP, stairstep, NTSC) MHP	Alignment tape (EP, stairstep, NTSC) MHP-L	
		

4.1.4 Color (colour) bar signal,Color (colour) bar pattern

- **Color(colour) bar signal [NTSC]**



- **Color(colour) bar pattern [NTSC]**



4.1.5 Switch settings

When adjusting this unit, set the VCR mode and switches as described below.

- When using the Jig RCU, it is required to set the VCR to the Jig RCU mode (the mode in which codes from the Jig RCU can be received). (See "section 2 SPECIFIC SERVICE INSTRUCTIONS".)

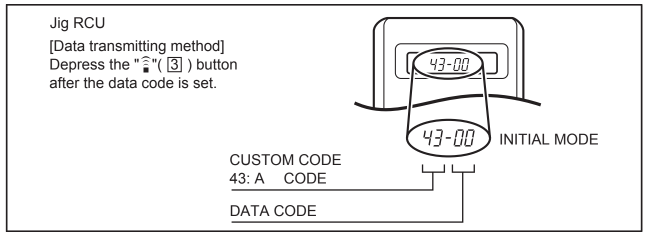


Fig.4-1 Jig RCU [PTU94023B]

- Set the switches as shown below unless otherwise specified on the relevant adjustment chart. The switches that are not listed below can be set as desired.
  If the VCR is not equipped with the functions detailed below, setup is not required.

AUTO PICTURE/VIDEO CALIBRATION/ B.E.S.T./D.S.P.C.	OFF
PICTURE CONTROL/SMART PICTURE	NORMAL/NATURAL
VIDEO STABILIZER	OFF
TBC	ON
Digital 3R	ON
VIDEO NAVIGATION/TAPE MANAGER	OFF
BLUE BACK	OFF

4.1.6 Manual tracking mode (Auto tracking ON/OFF) setting

(1) In order to set to the manual tracking mode during tape playback, press the “SP/EP(LP)”button on the remote control unit.
  - Each press of the button switches the auto tracking ON or OFF.
  - When the manual tracking mode is set, the tracking is placed at the center position.

(2) Press “channel +/-” to adjust the tracking manually.

4.1.7 EVR Adjustment

Some of the electrical adjustments require the adjustment performed by the EVR system. The main unit have EEPROMs for storing the EVR adjustment data and user setups.

Notes:

- **In the EVR adjustment mode, the value is varied with the channel buttons (+, -). The adjusted data is stored when the setting mode changes (from PB to STOP, when the tape speed is changed, etc.). Take care to identify the current mode of each adjustment item when making an adjustment.**
- **When changing the address setting in the EVR adjustment mode, use the Jig RCU or the remote controller having numeric keypad with which a numeric code can be directly input.**
  The remote control code of the Jig RCU corresponds to each of the digit keys on the remote controller as follows.

Digit-key	0	1	2	3	4	5	6	7	8	9
Code	20	21	22	23	24	25	26	27	28	29

- **As the counter indication and remaining tape indication are not displayed FDP during the EVR adjustment mode, check them on the TV monitor screen.**
- **When performing the EVR adjustment, confirm that the FDP indication is changed to the EVR mode.**

4.2 Mechanism compatibility adjustment (VHS SECTION)

Notes:

- **Although compatibility adjustment is very important, it is not necessary to perform this as part of the normal servicing work. It will be required when you have replaced the A/C head, drum assembly or any part of the tape transport system.**
- **To prevent damaging the alignment tape in the compatibility adjustment, prepare a cassette tape (for self-recording/playback), perform a test on it by transporting it and making sure that the tape is not bent by the tape transport mechanisms such as in the guide rollers.(See Fig.4-2b.)**

4.2.1 Tension pole position

Notes:

- **This adjustment must be performed every time the tension band is replaced.**

Signal	(A)	• Back tension cassette gauge [PUJ48076-2]
Mode	(B1) (B2)	• PB • Eject end
Adjustment part	(F)	• Adjust pin [Mechansim assembly]
Specified value	(G)	• 25 - 51 gf•cm (2.45 - 5 x 10^{-3} Nm)

(1) Play back the back tension cassette gauge (A).
(2) Check that the indicated value on the left side gauge is within the specified value (G).
(3) If the indicated value is not within the specified value (G), perform the adjustment in a following procedure.(See Fig.4-2a.)
  a) Remove the top frame, cassette holder and side frames (L/R) all together. (Refer to the SERVICE MANUAL No.86700 [MECHANISM ASSEMBLY].)
  b) Rotate the loading motor gear to move the control plate so that the triangular stamping to the left of the “P”stamping is aligned with the stamping (a) on the main deck. This positioning is mode (B1).
  c) Adjust by turning the adjustment pin so that the tip of the tension arm is aligned with the stamping (b) on the main deck.
  d) Rotate the reel disk (S) by about one turn clockwise and make sure that the round hole of the adjustment pin is located in the “OK” range. If it is outside this range, restart the adjustment from the beginning.

After completion of the adjustment, rotate the loading gear motor to return it to the mode (B2) position.

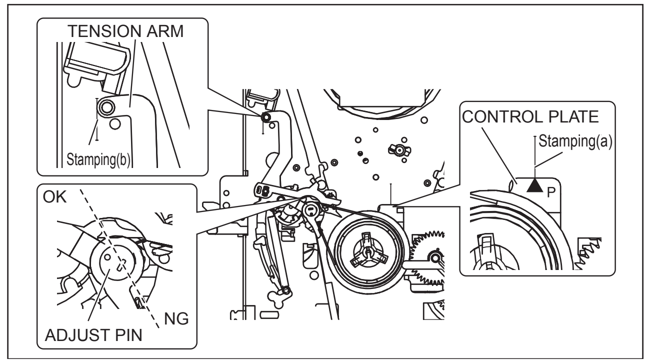


Fig.4-2a

4.2.2 FM waveform linearity

Signal	(A1) (A2)	• Alignment tape(SP, stairstep, NTSC) [MHP] • Alignment tape(EP,stairstep,NTSC) [MHP-L]
Mode	(B)	• PB
Equipment	(C)	• Oscilloscope
Measuring point	(D)	• TP106 (PB. FM)
External trigger	(E)	• TP111 (D.FF)
Adjustment part	(F)	• Guide roller [Mechanism assembly]
Specified value	(G)	• Flat V.PB FM waveform
Adjustment tool	(H)	• Roller driver [PTU94002]

(1) Play back the alignment tape (A1).
(2) Apply the external trigger signal to D.FF (E), to observe the V.PB FM waveform at the measuring point (D).
(3) Set the VCR to the manual tracking mode.
(4) Make sure that there is no significant level drop of the V.PB FM waveform caused by the tracking operation, with its generally parallel and linear variation ensured. Perform the following adjustments when required. (See Fig. 4-2c.)
(5) Reduce the V.PB FM waveform by the tracking operation. If a drop in level is found on the left side, turn the guide roller of the pole base assembly (supply side) with the roller driver to make the V.PB FM waveform linear.
If a drop in level is on the right side, likewise turn the guide roller of the pole base assembly (take-up side) with the roller driver to make it linear. (See Fig. 4-2c.)
(6) Make sure that the V.PB FM waveform varies in parallel and linearly with the tracking operation again. When required, perform fine-adjustment of the guide roller of the pole base assembly (supply or take-up side).
(7) Unload the cassette tape once, play back the alignment tape (A1) again and confirm the V.PB FM waveform.
(8) After adjustment, confirm that the tape wrinkling does not occur at the roller upper or lower limits. (See Fig. 4-2b.) [Perform adjustment step (9) only for the models equipped with SP mode and EP (or LP) mode.]

[Perform adjustment step (9) only for the models equipped with SP mode and EP (or LP) mode.]

(9) Repeat steps (1) to (8) by using the alignment tape (A2).

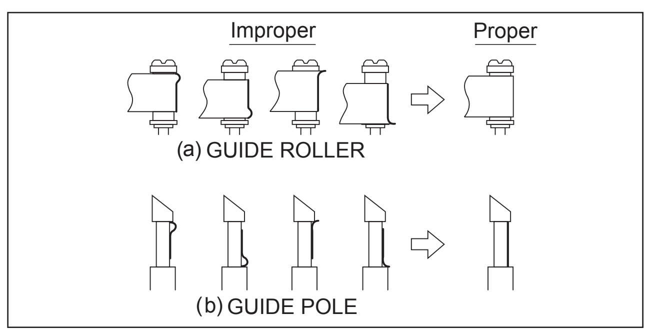


Fig.4-2b

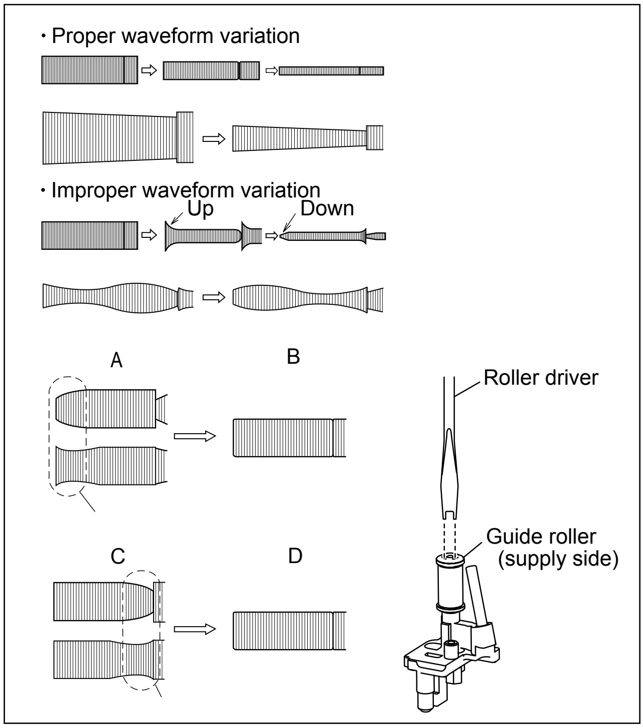


Fig.4-2c

4.2.3 Height and tilt of the A/C head

Note:

- **Set a temporary level of the height of the A/C head in advance to make the adjustment easier after the A/C head has been replaced. (Refer to the SERVICE MANUAL No.86700 [MECHANISM ASSEMBLY].)**

Item		Value
Signal	(A)	• Alignment tape(SP, stairstep, NTSC) [MHP]
Mode	(B)	• PB
Equipment	(C)	• Oscilloscope
Measuring point	(D1) (D2)	• TP106 (PB. FM) • TP4001 (CTL. P)
External trigger	(E)	• TP111 (D.FF)
Adjustment part	(F)	• A/C head [Mechanism assembly]
Specified value	(G)	• Maximum waveform

(1) Play back the alignment tape (A).
(2) Apply the external trigger signal to D.FF (E), to observe the AUDIO OUT waveform and Control pulse waveform at the measuring points (D1) and (D2) in the ALT mode.
(3) Set the VCR to the manual tracking mode.
(4) Adjust the AUDIO OUT waveform and Control pulse waveform by turning the screws (1), (2) and (3) little by little until both waveforms reach maximum. The screw (1) and (3) are for adjustment of tilt and the screw (2) for azimuth.

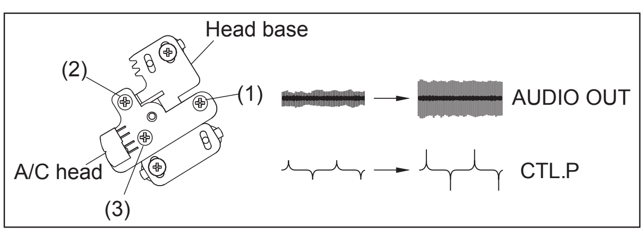


Fig.4-2d

4.2.4 A/C head phase (X-value)

Item		Value
Signal	(A1) (A2)	• Alignment tape(SP, stairstep, NTSC) [MHP] • Alignment tape(EP,stairstep,NTSC) [MHP-L]
Mode	(B)	• PB
Equipment	(C)	• Oscilloscope
Measuring point	(D)	• TP106 (PB. FM)
External trigger	(E)	• TP111 (D.FF)
Adjustment part	(F)	• A/C head base [Mechanism assembly]
Specified value	(G)	• Flat V.PB FM waveform
Adjustment tool	(H)	• Roller driver [PTU94002]

(1) Play back the alignment tape (A1).
(2) Apply the external trigger signal to D.FF (E), to observe the V.PB FM waveform at the measuring point (D).
(3) Set the VCR to the manual tracking mode.
(4) Loosen the screws (4) and (5), then set the Roller driver to the innermost projected part of the A/C head. (See Fig. 4-2e.)
(5) Rotate the roller driver so that the A/C head comes closest to the capstan. From there, move the A/C head back gradually toward the drum until the point where the FM waveform is maximized for the second time, and then tighten the screws (4) and (5) temporarily.
(6) Play an alignment tape (A2) and set to the manual-tracking mode.
(7) Fine-adjust A/C head base position to maximize the FM waveform, and then tighten the screws (4) and (5) firmly.
(8) Play alignment tapes (A1) and (A2) and confirm that the FM waveforms are maximized when the tracking is at the center position.

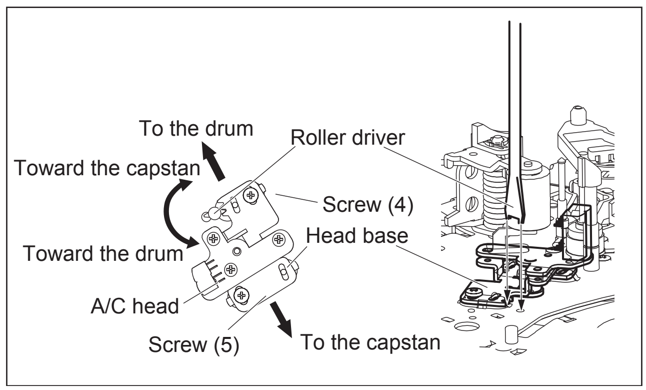


Fig.4-2e

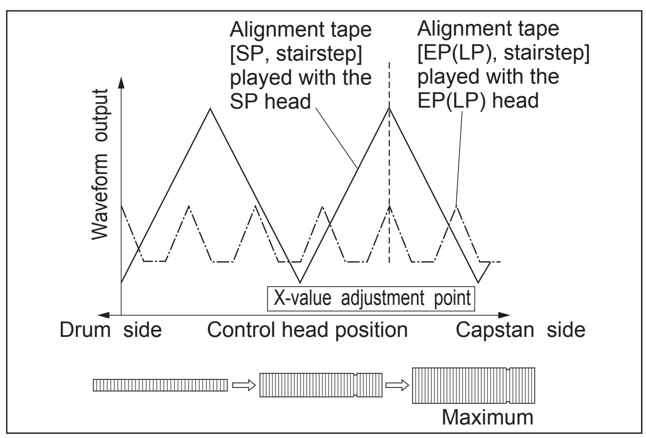


Fig.4-2f

4.3 Electrical adjustment

Note:

The following adjustment procedures are not only necessary after replacement of consumable mechanical parts or board assemblies, but are also provided as references to be referred to when servicing the electrical circuitry.

In case of trouble with the electrical circuitry, always begin a service by identifying the defective points by using the measuring instruments as described in the following electrical adjustment procedures. After this, proceed to the repair, replacement and/or adjustment. If the required measuring instruments are not available in the field, do not change the adjustment parts (variable resistor, etc.) carelessly.

4.3.1 Servo circuit

4.3.1.1 Switching point

Signal	(A1) (A2)	• Stairstep signal • Alignment tape(EP,stairstep,NTSC) [MHP-L]
Mode	(B)	• PB
Equipment	(C)	• Oscilloscope
Measuring point	(D)	• VIDEO OUT terminal (75 ohm terminated) • TP106 (PB. FM)
External trigger	(E)	• TP111 (D.FF)
Adjustment part	(F)	• Jig RCU: Code “5A”
Specified value	(G)	• 6.5 ± 0.5H
Adjustment tool	(H)	• Jig RCU [PTU94023B]

(1) Play back the signal (A1) of the alignment tape (A2).
(2) Apply the external trigger signal to D.FF (E) to observe the VIDEO OUT waveform and V.PB FM waveform at the measuring points (D1) and (D2).
(3) Set the VCR to the manual tracking mode.
(4) Adjust tracking so that the V.PB FM waveform becomes maximum.
(5) Set the VCR to the Auto adjust mode by transmitting the code (F) from the Jig RCU. When the VCR enters the stop mode, the adjustment is completed.
(6) If the VCR enters the eject mode, repeat steps (1) to (5) again.
(7) Play back the alignment tape (A2) again, confirm that the switching point is the specified value (G).

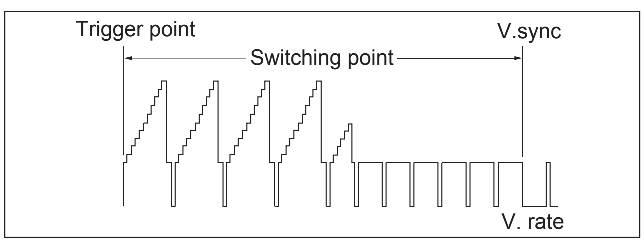


Fig.4-3a Switching point

4.3.1.2 Slow tracking preset

Signal	(A1) (A2)	• Ext. input • Color (colour) bar signal [NTSC]
Mode	(B1) (B2)	• VHS SP • VHS EP
Measuring point	(D)	• TV-Monitor
Adjustment part	(F)	• Jig RCU: Code “71”or “72”
Specified value	(G)	• minimum noise
Adjustment tool	(H)	• Jig RCU [PTU94023B]

(1) Record the signal (A2) in the mode (B1), and play back the recorded signal.
(2) Set the VCR to the manual tracking mode.
(3) Set the VCR to the FWD slow (+1/6x) mode.
(4) Transmit the code (F) from the Jig RCU to adjust so that the noise bar becomes the specified value (G) on the TV monitor in the slow mode.
(5) Set the VCR to the Stop mode.
(6) Confirm that the noise bar is (G) on the TV monitor in the slow mode.
(7) Repeat steps (3) to (6) in the REV slow (+1/6x) mode.
(8) Repeat steps (1) to (7) in the mode (B2).

Note:

- **For FWD slow (+1/6x) playback, transmit the code “08” from the Jig RCU to enter the slow playback mode, and transmit the code “D0”for REV slow (-1/6x) mode.**

4.3.2 DVD Video circuit

Note

- **when perform these adjustments, set the unit to DVD mode.(DVD lamp lights up)**

4.3.2.1 EE COMPONENT Y level

Signal	(A)	• Internal color bar
Mode	(B)	• EE
Equipment	(C)	• Oscilloscope
Measuring point	(D)	• COMPONENT Y terminal
EVR mode EVR address	(F1) (F2) (F3) (F4) (F5)	• Jig code “95” • "ADJUST01 : **" • Jig code “21” • Jig code “18” or “19” (Channel +/-) • Jig code “3C”
Specified value	(G)	• 1.00 ± 0.02 Vp-p (terminated)
Adjustment tool	(H)	• Jig RCU [PTU94023B]

(1) Observe the Y OUT waveform at the measuring point (D).
(2) Set the VCR to the EVR mode by transmitting the code (F1) from the Jig RCU.
(3) Set the EVR address to (F2) by transmitting the code (F3) from the Jig RCU.
(4) Transmit the code (F4) from the Jig RCU to adjust so that the Y level of the Y OUT waveform becomes the specified value (G).
(5) Release the EVR mode of the VCR by transmitting the code (F5) from the Jig RCU again. (When the EVR mode is released, the adjusted data is memorized.)

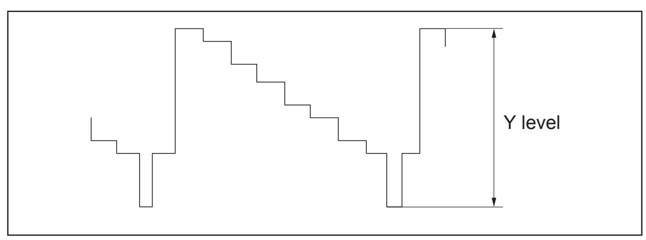


Fig.4-3b EE componet Y level

4.3.2.2 EE Y level

Signal	(A1) (A2)	• Ext. input • Color (colour) bar signal
Mode	(B)	• EE
Equipment	(C)	• Oscilloscope
Measuring point	(D)	• Y OUT (S terminal)
EVR mode EVR address	(F1) (F2) (F3) (F4) (F5)	• Jig code “95” • "ADJUST02 : **" • Jig code “22” • Jig code “18” or “19” (Channel +/-) • Jig code “3C”
Specified value	(G)	• 1.00 ± 0.02 Vp-p (terminated)
Adjustment tool	(H)	• Jig RCU [PTU94023B]

(1) Observe the Y OUT waveform at the measuring point (D).
(2) Set the VCR to the EVR mode by transmitting the code (F1) from the Jig RCU.
(3) Set the EVR address to (F2) by transmitting the code (F3) from the Jig RCU.
(4) Transmit the code (F4) from the Jig RCU to adjust so that the Y level of the Y OUT waveform becomes the specified value (G).
(5) Release the EVR mode of the VCR by transmitting the code (F5) from the Jig RCU again. (When the EVR mode is released, the adjusted data is memorized.)

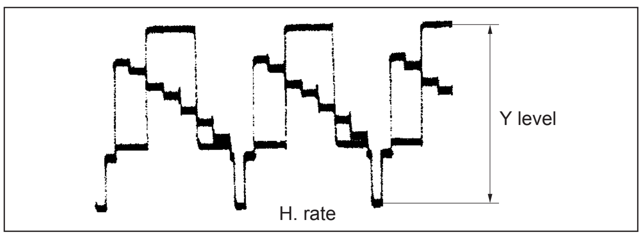


Fig.4-3c EE Y level

4.3.2.3 EE COMPONENT PB/CB level

Signal	(A)	• Internal color bar
Mode	(B)	• EE
Equipment	(C)	• Oscilloscope
Measuring point	(D)	• COMPONENT PB/CB terminal
EVR mode EVR address	(F1) (F2) (F3) (F4) (F5)	• Jig code “95” • "ADJUST06 : **" • Jig code “26” • Jig code “18” or “19” (Channel +/-) • Jig code “3C”
Specified value	(G)	• 0.70 ± 20 Vp-p (terminated)
Adjustment tool	(H)	• Jig RCU [PTU94023B]

(1) Observe the CB OUT waveform at the measuring point (D).
(2) Set the VCR to the EVR mode by transmitting the code (F1) from the Jig RCU.
(3) Set the EVR address to (F2) by transmitting the code (F3) from the Jig RCU.
(4) Transmit the code (F4) from the Jig RCU to adjust so that the CB level of the CB OUT waveform becomes the specified value (G).
(5) Release the EVR mode of the VCR by transmitting the code (F5) from the Jig RCU again. (When the EVR mode is released, the adjusted data is memorized.)

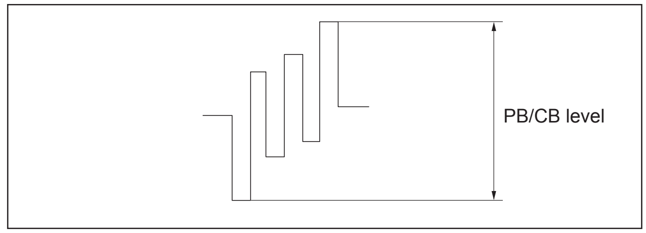


Fig.4-3d EE component PB/CB level

4.3.3 Syscon circuit

Notes:
- **When perform this adjustment, remove the Mechanism assembly.**

4.3.3.1 Timer clock

Signal	(A)	• No signal
Mode	(B)	• EE
Equipment	(C)	• Frequency counter
Measuring point	(D1) (D2) (D3)	• IC3001 pin 61 • IC3001 pin 24 • C3026 + and -
Adjustment part	(F)	• C3025 (TIMER CLOCK)
Specified value	(G)	• 1024.008 ± 0.001 Hz (976.5549 ± 0.0010 usec)

(1) Connect the frequency counter to the measuring point (D1).
(2) Connect the short wire between the short point (D2) and Vcc (5V).
(3) Short the leads of capacitor (D3) once in order to reset the microprocessor of the Syscon.
(4) Disconnect the short wire between the short point (D2) and Vcc then connect it again.
(5) Adjust the Adjustment part (F) so that the output frequency becomes the specified value (G).

SECTION 5
TROUBLESHOOTING

5.1 Manually removing the cassette tape

If you cannot remove the cassette tape which is loaded because of any electrical or mechanical failures, manually remove it by taking the following steps.

(1) Unplug the power cord plug from the power outlet.

(2) Refer to the disassembly procedure of the VCR and perform the disassembly of the major parts before removing the mechanism assembly. (See Fig. 5-1a)

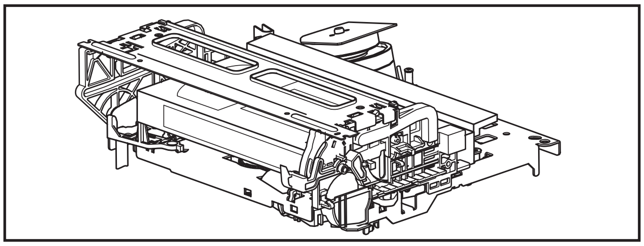


Fig.5-1a

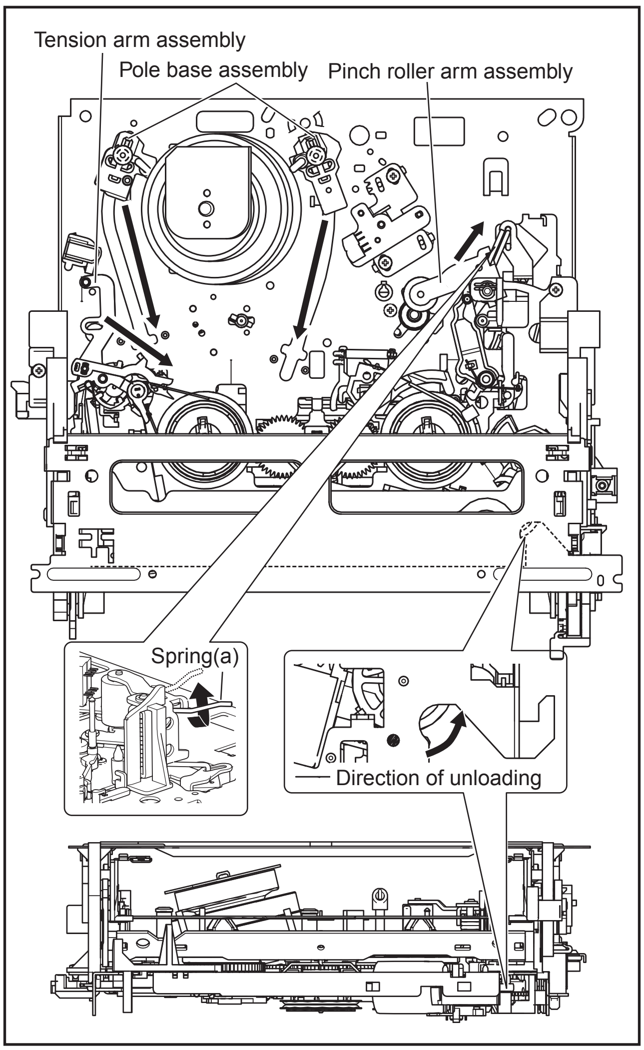


Fig.5-1b

(3) Unload the pole base assembly by manually turning the gear of the loading motor until the pole base assembly is hidden behind the cassette lid. In doing so, hold the tape by the hand to keep the slack away from any grease. (See Fig.5-1b)
In case of mechanical failures, while keeping the tension arm assembly free from tension, pull out the tape on the pole base assembly. Take the spring(a) of the pinch roller arm assembly off the hook, and detach it from the tape.

(4) Remove the screw (a) of the side frame (L/R).

(5) Hold the slack tape and cassette cover together, lift the cassette tape, top frame, cassette holder and side frames (L, R) together from the rear and remove them by dis-engaging the hooks (a) and (b).

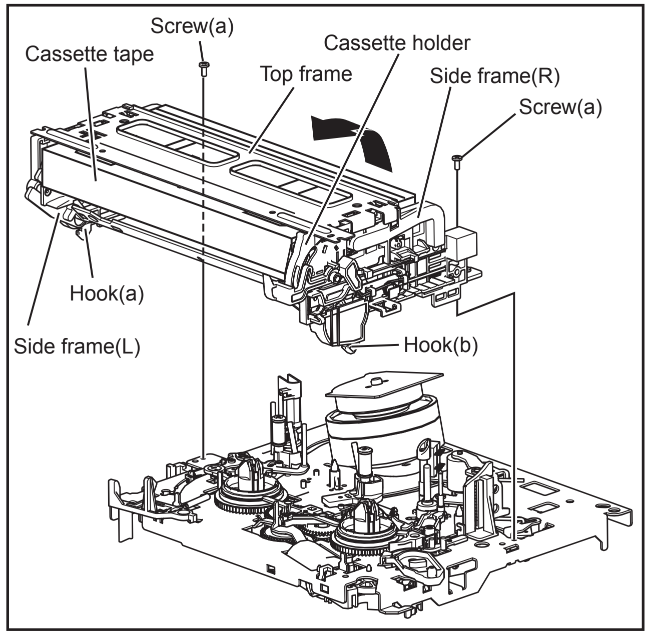


Fig.5-1c

(6) Take up the slack of the tape into the cassette. This completes removal of the cassette tape.

5.2 Manually removing the disk(DVD/CD)

If you cannot remove the disk which is loaded because of any electrical or mechanical failures, manually remove it by taking the following steps.

5.2.1 Method 1

(1) AC Plug is pulled out at once and inserted again.

(2) It is displayed on FDP as "LOADING", and while it blinks, pushing the OPEN/CLOSE button is continued.

(3) After a while, a tray opens (About 20 seconds).

(4) After removed a disk, press the OPEN/CLOSE button again to close the tray.

(5) The "LOADING" blink display of FDP disappears and it will be in a standby mode.

(6) If the POWER button is pushed, it will usually be operating.

5.2.2 Method 2

(1) Unplug the ACpower cord from the AC outlet.

(2) Remove the top cover and front panel assembly.
(Refer to the disassembly procedure and perform the disassembly of the major parts before removing)

(3) Pass a thin wire through a hole in the DVD unit.

(4) The disc tray comes out slightly. Take out the disc tray manually.(See Fig.5-2a)

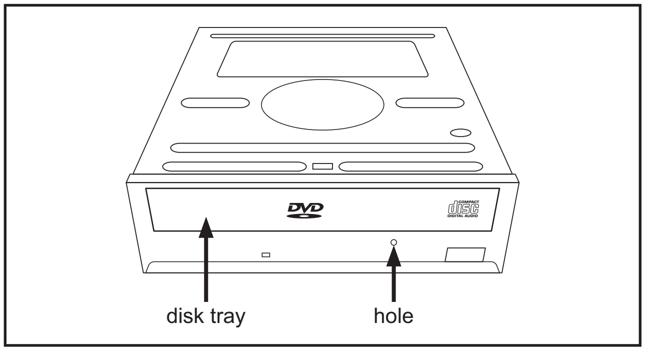


Fig.5-2a

5.3 Emergency display function (VHS SECTION)

This unit saves details of the last two emergencies as the EMG history and allows the status of the VCR and the mechanism of each emergency to be shown both on the display and as OSD information.
When using the emergency function, it is required to set the VCR to the Jig RCU mode.

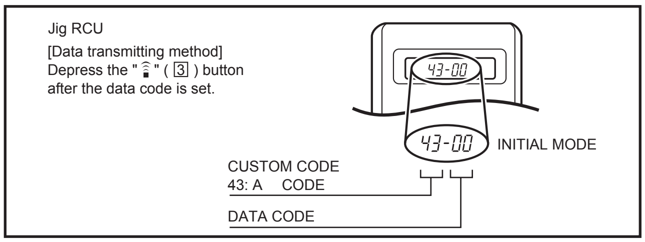


Fig.5-3a Jig RCU [PTU94023B]

5.3.1 Displaying the EMG information

The EMG detail of information can be displayed by transmitting the code "59" from the Jig RCU.

Note:

- **The EMG detail information <1><2> show the information on the latest EMG.**
  It becomes " - - : - - : - - " when there is no latest EMG record.

Display	Content	Reference
0: 00	Normal display	
E: **	EMG content display (Latest)	→ See 5.3.4
1E: **	EMG content display (Previous)	→ See 5.3.4
1: *1	EMG detail information <1> [Deck operation mode]	→ See 5.3.5
2: *2	EMG detail information <1> [Mechanism operation mode]	→ See 5.3.5
3: 34	EMG detail information <1> [Mechanism sensor information and Mechanism mode position]	→ See 5.3.5
4: *5	EMG detail information <2> [Type of the cassette tape in use <1>]	→ See 5.3.6
5: *6	EMG detail information <2> [Winding position of the cassette tape in use]	→ See 5.3.6
6: *7	EMG detail information <2> [Type of the cassette tape in use <2> (Winding area)]	→ See 5.3.6
7: *8	EMG detail information <3> [Previous deck operation mode]	→ See 5.3.7
8: *9	EMG detail information <3> [The deck operation mode of the one before the last]	→ See 5.3.7
9: *10	EMG detail information <3> [The deck operation mode of the one prior to one above]	→ See 5.3.7

EMG display of 7 FDP display model
Fig.5-3b

EMG display of FDP display mode

(1) Transmit the code "59" from the Jig RCU.
The FDP shows the EMG content in the form of "E:**:**".

<Example 1> E : 01 ← Latest EMG

<Example 2> E : - - ← No EMG record

(2) Transmit the code "59" from the Jig RCU again.
The FDP shows the EMG detail information <1> in the form of " *1: *2 : 34 ".

*1 : Deck operation mode at the moment of EMG
*2 : Mechanism operation mode at the moment of EMG
3- : Mechanism sensor information at the moment of EMG
-4 : Mechanism mode position at the moment of EMG

(3) Transmit the code "59" from the Jig RCU once again.
The FDP shows the EMG detail information <2> in the form of " *5 : *6 : *7 ".

*5 : Type of the cassette tape in use <1> .
*6 : Winding position of the cassette tape in use
*7 : Type of the cassette tape in use <2> (Winding area)

(4) Transmit the code "59" from the Jig RCU once again.
The FDP shows the EMG detail information <3> in the form of "*8 : *9 : *10".

*8 : Previous deck operation mode at the moment of EMG
*9 : The deck operation mode of the one before the last at the moment of EMG
*10: The deck operation mode of the one prior to one above at the moment of EMG

(5) Transmit the code "59" from the Jig RCU once again to reset the display.

5.3.2 Clearing the EMG history

(1) Display the EMG history.
(2) Transmit the code "36" from the Jig RCU.
(3) Reset the EMG display.

5.3.3 Details of the OSD display in the EMG display mode

During the EMG display, the OSD shows the data on the deck mode, etc. The details of the display contents are as follows.

Notes:

- **The display is variable depending on the part No. of the System Control microcomputer (IC3001) built into the VCR. In the following, refer to the figure carrying the same two characters as the top two characters of the part number of your IC.**
- **The sensor information in the OSD display contents is partially different from the mechanism sensor information in EMG detail information <1>.**

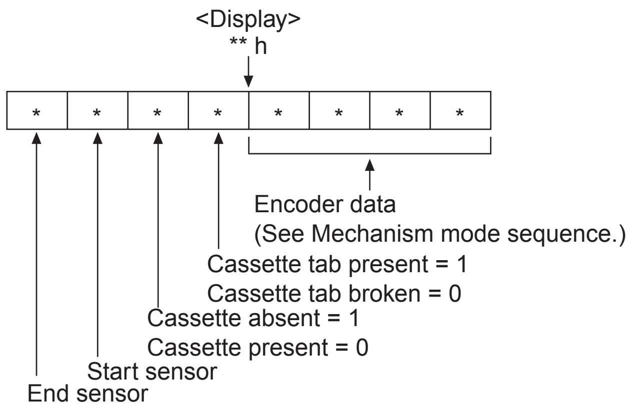
[For MN* only]

AA	BB	CC	DD	EE
FF	GG	HH	I I	J J
KK	L L	MM	NN	OO
PP	QQ	RR	SS	TT
UU	VV	WW	XX	YY

AA : Deck operation mode (See EMG detail information <1>.)
BB : Mechanism operation mode
(See EMG detail of information <1>.)
CC : Mechanism transition flag
DD : Capstan motor control status
EE : Loading motor control status
FF : Sensor information (See sensor information details.)
GG : Capstan motor speed
HH : Key code (JVC code)
I I : Supply reel winding diameter data higher 8 bits.
JJ : Supply reel winding diameter data lower 8 bits.
KK : Mechanism sensor information & mechanism mode position(See EMG detail of information <1>.)
LL : Tape speed data higher 8 bits.
MM : Tape speed data lower 8 bits.
NN : Cassette tape type <2> higher 8 bits.
(See EMG detail of information <2>.)
OO : Cassette tape type <2> lower 8 bits.
(See EMG detail of information <2>.)
PP : General data display area

YY : General data display area

***FF:Sensor information details**

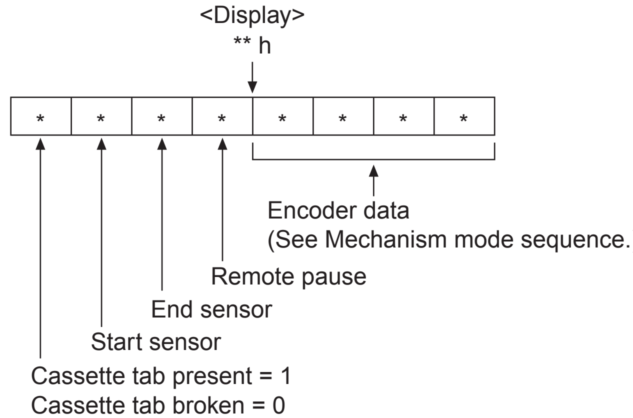


[For *HD only]

AA	BB	CC
DD	EE	FF
GGGG	HHHH	
I I	J J J J	
KKKK	L L L L	MMMM
ROM No.		

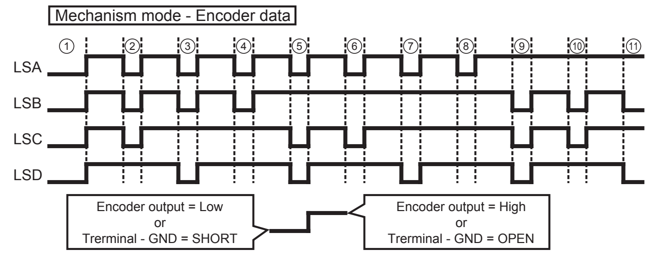
AA : Key code (JVC code)
BB : Deck operation mode(See EMG detail information <1>.)
CC : Mechanism operation mode (See EMG detail information <1>.)
DD : Sensor information (See sensor information details.)
EE : Capstan motor speed (Search, double speed)
FF : Tracking value
GGGG : Cassette tape type <2>, 16 bits.
(See EMG detail information <2>.)
HHHH : Supply reel winding diameter data
I I : Capstan motor speed (FF/REW, double speed)
JJJJ : Tape speed data, lower 8 bits.
KKKK : General data display area
LLLL : General data display area
MMMM : General data display area

***DD:Sensor information details**

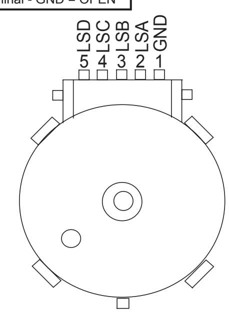


[For both MN*/HD*]

Mechanism mode sequence



No.	Position	Encoder data
①	EJECT	0 h = 0000
②	EJECT1	1 h = 0001
③	EJECT2	2 h = 0010
④	ULSTOP	3 h = 0011
⑤	UPPER	4 h = 0100
⑥	ONSTOP(PLAY)	5 h = 0101
⑦	FWD/SS	6 h = 0110
⑧	REV/SS	7 h = 0111
⑨	OFFSTOP	8 h = 1000
⑩	FFREW-BRAKE	9 h = 1001
⑪	FFREW	A h = 1010
⑫	MIDDLE	F h = 1111



5.3.4 EMG content description

Note:
EMG contents “E09” are for the model with Dynamic Drum (DD).

FDP	CONTENT	CAUSE
E01: Loading EMG	If the mechanism mode does not change to the next mode within 4 seconds after the loading motor starts rotating in the loading direction, while the mechanism is in the after-loading position (with the tape up against the pole base), [E:01] is identified and the power is switched OFF. However, if the tape loading is not completed within 4 seconds after the loading motor starts rotating in the loading direction, the tape is simply unloaded and ejected. No EMG data is recorded in this case.	1. The mechanism is locked in the middle of the mode transition during a tape loading operation. 2. The mechanism overruns during the tape loading operation because the SYSCON cannot recognize the mechanism mode normally. This problem is due to a cause such as a rotary encoder failure. 3. Power is not supplied to the loading MDA. (M12V/Vcc/Vref/ICP are disconnected in the middle.)
E02: Unloading EMG	When the mechanism mode cannot be changed to another mode even when the loading motor has rotated for more than 4 seconds in the unloading direction, [E:02] is identified and the power is turned off.	1. The mechanism is locked in the middle of mode transition. 2. Without an eject signal being sent from the SYSCON, unloading is attempted (i.e. Ejection is attempted while the tape is still inside the mechanism.) because the SYSCON cannot recognize the mechanism mode normally. This is due to a cause such as a rotary encoder failure. (Mechanism position: UPPER) 3. Power is not supplied to the loading MDA. (M12V/Vcc/Vref/ICP are disconnected in the middle.)
E03: Take Up Reel Pulse EMG	When the falling edje of the take-up reel pulse has not been generated for more than 4 seconds in the capstan rotating mode, [E:03] is identified, the pinch rollers are turned off and stopped, and the power is turned off. In this case, however, the mechanism should be in position after tape loading. Note that the reel EMG is not detected during Slow/Frame advance operations.	1. The take-up reel pulse is not generated in the FWD transport modes (PLAY/FWD SEARCH/FF, etc.) because; 1) The idler gear is not meshed with the take-up reel gear because the mechanism mal-functions for some reason. 2) The idler gear is meshed with the take-up reel gear, but incapable of winding due to too large mechanical load (abnormal tension); 3) The reel is rotating normally but an FG pulse is not generated due to the take-up reel sensor failure. 2. The supply reel pulse is not generated in the REV transport modes (REV SEARCH/REW, etc.) because; 1) The idler gear is not meshed with the supply reel gear because the mechanism mal-functions for some reason. 2) The idler gear is meshed with the supply reel gear, but incapable of winding due to too large a mechanical load (abnormal tension); 3) The reel rotates normally but the FG pulse is not generated due to a supply reel sensor failure. 3. Power(SW5V) is not supplied to the reel sensor on the tape winding side.
E04: Drum FG EMG	When the drum FG pulse has not been input for more than 3 seconds in the drum rotating mode, [E:04] is identified, the pinch rollers are turned off and stopped, and the power is turned off.	1. The drum could not start or the drum rotation has stopped due to too large a load on the tape, because; 1) The tape tension is abnormally high; 2) The tape is damaged or a foreign object (grease, etc.) adheres to the tape. 2. The drum FG pulse did not reach the System controller CPU because; 1) The signal circuit is disconnected in the middle; 2) The FG pulse generator (hall device) of the drum is faulty. 3. The drum control voltage (DRUM CTL V) is not supplied to the MDA. 4. Power (M12V) is not supplied to the drum MDA.
E05: Cassette Eject EMG	If the cassette does not reach the eject position within about 0.7 seconds after the cassette housing has started the cassette ejection operation, [E:05] is identified, the drive direction is reversed to load the tape, the mode is switched to STOP mode with the pinch roller OFF, and the power is switched OFF. During the cassette insertion process, the drive direction is reversed and the cassette is ejected if the tape is not up against the pole base within about 3 seconds after the start of the cassette pulling-in operation. If the cassette does not reach the eject position within about 0.7 seconds after the drive mode reversal operation, [E:05] is identified and the power is switched OFF immediately.	1. The cassette cannot be ejected due to a failure in the drive mechanism of the housing. 2. When the housing load increases during ejection, the loading motor is stopped because of lack of headroom in its drive torque. Housing load increasing factors: Temperature environment (low temperature, etc.), mechanism wear or failure. 3. The sensor/switch for detecting the end of ejection are not functioning normally. 4. The loading motor drive voltage is lower than specified or power (M12V) is not supplied to the motor (MDA). 5. When the user attempted to eject a cassette, a foreign object (or perhaps the user's hand) was caught in the opening of the housing.
E06: Capstan FG EMG	When the capstan FG pulse has not been generated for more than 1 second in the capstan rotating mode, [E:06] is identified, the pinch rollers are turned off and stopped, and the power is turned off.However, the capstan EMG is not detected in SLOW/STILL modes. Note that, if the part number of the System Control IC begins with "MN" or "M3", the capstan EMG is not detected even during the FF/REW operation.	1. The capstan could not start or the capstan rotation has stopped due to too large a load on the tape, because; 1) The tape tension is abnormally high (mechanical lock); 2) The tape is damaged or a foreign object (grease, etc.) is adhered to the tape (occurrence of tape entangling, etc.). 2. The capstan FG pulse did not reach the System controller CPU because; 1) The signal circuit is disconnected in the middle; 2) The FG pulse generator (MR device) of the capstans is faulty. 3. The capstan control voltage (CAPSTAN CTL V) is not supplied to the MDA. 4. Power (M12V, SW5V) are not supplied to the capstan MDA.
E07: SW Power Short-Circuit EMG	When short-circuiting of the SW power supply with GND has lasted for 0.5 second or more, [E:07] is identified, all the motors are stopped and the power is turned off.	1. The SW 5 V power supply circuit is shorted with GND. 2. The SW 12 V power supply circuit is shorted with GND.
E08: DVD EMG	When communication with a system computer of VHS side is not carried out because of the defective DVD unit, or when the DVD unit must be reset	1. The DVD unit is defective. 2. Contact failure of the wires in the DVD unit or VHS side.
E09: DD FG EMG	When the DD FG pulse is not generated within 2.5 seconds, [E:09] is identified, the tilt motor is stopped and the power is turned off.	1. The FG sensor is defective. (The soldered parts have separated.) 2. The pull-up resistor at the FG sensor output is defective. (The soldered parts have separated.) 3. Contact failure or soldering failure of the pins of the connector (board-to-board) to the FG sensor. 4. The power (5V) to the sensor is not supplied. (Connection failure/soldering failure) 5. The FG pulse is not sent to the System Controller CPU. 6. The tilt motor is defective. (The soldered parts have separated.) 7. The drive power to the tilt motor is not supplied. (Connection failure/soldering failure) 8. The tilt motor drive MDA - IC is defective. 9. Auto-recovery of the DD tilting cannot take place due to overrun.
E0A: Supply Reel Pulse EMG	When the falling edge of the supply reel pulse has not been generated for more than 10 seconds in the capstan rotating mode, [E:0A] is identified and the cassette is ejected (but the power is not turned off). In this case, however, the mechanism should be in the position after tape loading (with the tape up against the pole base). Also note that the reel EMG is not detected during Slow/Frame advance operations.	1. The supply reel pulse is not generated in the FWD transport mode (PLAY/FWD SEARCH/FF, etc.) because; 1) PLAY/FWD or SEARCH/FF is started while the tape in the inserted cassette is cut in the middle; 2) A mechanical factor caused tape slack inside and outside the supply reel side of the cassette shell. In this case, the supply reel will not rotate until the tape slack is removed by the FWD transport, so the pulse is not generated until then; 3) The reel is rotating normally but the FG pulse is not generated due to a supply reel sensor failure. 2. The take-up reel pulse is not generated in the REV transport mode (REV SEARCH/REW, etc.). 1) REV SEARCH/REW is started when the tape in the inserted cassette has been cut in the middle; 2) A mechanical factor caused tape slack inside and outside the take-up reel side of the cassette shell. In this case, the take up will not rotate until the tape slack is removed by the REV transport, so the pulse will not be generated until that time; 3) The reel is rotating normally but the FG pulse is not generated due to a take-up reel sensor failure. 3. The power (SW 5V) to a reel sensor is not supplied.
EU1: Head clog warning history	Presupposing the presence of the control pulse output in the PLAY mode, when the value obtained by mixing the two V.FM output channels (without regard to the A.FM output) has remained below a certain threshold level for more than 10 seconds, [E:U1] is identified and recorded in the emergency history. During the period in which the head clog is detected, the FDP shows "U:01" and the OSD repeats the "3 seconds of warning display" and the "7 seconds of noise picture display" alternately. EMG code : "E:C1" or "E:U1" / FDP : "U:01" / OSD : "Try cleaning tape." or "Use cleaning cassette." The head clog warning is reset when the above-mentioned threshold has been exceeded for more than 2 seconds or the mode is changed to another mode than PLAY.	

5.3.5 EMG detail information <1>

The status (electrical operation mode) of the VCR and the status (mechanism operation mode/sensor information) of the mechanism in the latest EMG can be confirmed based on the figure in EMG detail information <1> .

[FDP/OSD display] *1 : *2 : 34

*1 : Deck operation mode at the moment of EMG
*2 : Mechanism operation mode at the moment of EMG
3- : Mechanism sensor information at the moment of EMG
-4 : Mechanism mode position at the moment of EMG

Note:

- **For EMG detailed information <1>, the content of the code that is shown on the display (or OSD) differs depending on the parts number of the system control microprocessor (IC3001) of the VCR. The system control microprocessor parts number starts with two letters, refer these to the corresponding table.**

***1 : Deck operation mode**

[Common table of MN* and HD]

Display		Deck operation mode
MN*	HD*	
00	-	Mechanism being initialized
01	00	STOP with pinch roller pressure off (or tape present with P.OFF)
02	01	STOP with pinch roller pressure on
03	-	POWER OFF as a result of EMG
04	04	PLAY (Normal playback)
0C	0E	REC
10	11	Cassette ejected
20	22	FF
21	-	Tape fully loaded, START sensor ON, short FF
22	-	Cassette identification FWD SEARCH before transition to FF (SPx7-speed)
24	26	FWD SEARCH (variable speed) including x2-speed
2C	2E	INSERT REC
40	43	REW
42	-	Cassette identification REV SEARCH before transition to REW (SPx7-speed)
44	47	REV SEARCH (variable speed)
4C	4C	AUDIO DUB
6C	6E	INSERT REC (VIDEO + AUDIO)
84	84	FWD STILL / SLOW
85	85	REV STILL / SLOW
8C	8F	REC PAUSE
8D	-	Back spacing
8E	-	Forward spacing (FWD transport mode with BEST function)
AC	AF	INSERT REC PAUSE
AD	-	INSERT REC back spacing
CC	CD	AUDIO DUB PAUSE
CD	-	AUDIO DUB back spacing
EC	EF	INSERT REC (VIDEO + AUDIO) PAUSE
ED	-	INSERT REC (VIDEO + AUDIO) back spacing

***2 : Mechanism operation mode**

[Table of MN*]

Display	Mechanism operation mode
00	Command standby (No command to be executed)
01	Immediate Power OFF after EMG occurrence
02	Loading from an intermediate position during mechanism initialization
03	Unloading due to EMG occurrence during mechanism initialization
04	Ejecting cassette (ULSTOP to EJECT)
05	Inserting cassette (EJECT to ULSTOP)
06	Loading tape (ULSTOP to PLAY)
07	Unloading tape (PLAY to ULSTOP)
08	Transition from pinch roller ON to STOP
09	Transition from pinch roller OFF to STOP (PLAY to OFFSTOP)
0A	Transition from pinch roller OFF to STOP at power OFF
0B	Transition from pinch roller ON to STOP at power ON
0C	Transition to PLAY
0D	Transition to Search FF
0E	Transition to REC
0F	Transition to FWD STILL/SLOW
10	Transition to REV STILL/SLOW
11	Transition to Search REV
12	Transition from FF/REW to STOP
13	Transition to FF
14	Transition to REW
15	Tape end detection processing during loading
16	Short FWD/REV at tape sensor ON during unloading
17	Transition to FF/REW brake mode

[Table of HD*]

Display	Mechanism operation mode
00	STOP with pinch roller pressure off
01	STOP with pinch roller pressure on
02	U/L STOP (or tape being loaded)
04	PLAY (Normal playback)
05	PLAY (x1-speed playback using JOG)
0E	REC
11	Cassette ejected
22	FF
26	FWD SEARCH (variable speed) including x2-speed
2E	INSERT REC
43	REW
47	REV SEARCH
4C	AUDIO DUB
6E	INSERT REC (VIDEO + AUDIO)
84	FWD STILL/SLOW
85	REV STILL/SLOW
8F	REC PAUSE
AF	INSERT REC PAUSE
C7	REV SEARCH (x1-speed reverse playback using JOG)
CD	AUDIO DUB PAUSE
EF	INSERT REC (VIDEO + AUDIO) PAUSE
F0	Mechanism being initialized
F1	POWER OFF as a result of EMG
F2	Cassette being inserted
F3	Cassette being ejected
F4	Transition from STOP with pinch roller pressure on to STOP with pinch roller pressure off
F5	Transition from STOP with pinch roller pressure on to PLAY
F6	Transition from STOP with pinch roller pressure on to REC
F7	Cassette type detection SEARCH before FF/REW is being executed
F8	Tape being unloaded
F9	Transition from STOP with pinch roller pressure off to STOP with pinch roller pressure on
FA	Transition from STOP with pinch roller pressure off to FF/REW
FB	Transition from STOP with pinch roller pressure off to REC.P (T.REC,etc.)
FC	Transition from STOP with pinch roller pressure off to cassette type detection SEARCH
FD	Short REV being executed after END sensor on during unloading
FE	Tension loosening being executed after tape loading (STOP with pinch roller pressure on)
FF	Tape being unloaded

3- : Mechanism sensor information

[Common table of MN* and HD*]

Display	Mechanism sensor informatio n			
	REC safety SW	Start sensor	End sensor	Mechansim position sensor
0-	Tab broken	ON	ON	ON
1-	Tab broken	ON	ON	OFF
2-	Tab broken	ON	OFF	ON
3-	Tab broken	ON	OFF	OFF
4-	Tab present	OFF	ON	ON
5-	Tab present	OFF	ON	OFF
6-	Tab present	OFF	OFF	ON
7-	Tab present	OFF	OFF	OFF
8-	Tab broken	ON	ON	ON
9-	Tab broken	ON	ON	OFF
A-	Tab broken	ON	OFF	ON
B-	Tab broken	ON	OFF	OFF
C-	Tab present	OFF	ON	ON
D-	Tab present	OFF	ON	OFF
E-	Tab present	OFF	OFF	ON
F-	Tab present	OFF	OFF	OFF

Tab broken = 0　　Sensor ON = 0　　Sensor ON = 0
Tab present = 1　　sensor OFF = 1　　Sensor OFF = 1

-4 : Mechanism mode position

[Common table of MN* and HD*]

Mechanism sensor information	Dis-play	Deck operation mode	
Even number (0, 2, 4, 6, 8, A, C, E)	-0	Not established	
	-1	EJECT	EJECT position
	-2	EJECT-EJECT1	Intermodal position
	-3	EJECT1	EJECT1 position
	-4	EJECT1-EJECT2	Intermodal position
	-5	EJECT2	EJECT2 position
	-6	EJECT2-ULSTOP	Intermodal position
	-7	ULSTOP	ULSTOP position
	-8	ULSTOP-UPPER	Intermodal position
	-9	UPPER	Loading (unloading) tape
	-A	UPPER-ONSTOP	Intermodal position
	-B	ONSTOP	PLAY position
	-C	PLAY-FWD/SS	Intermodal position
	-D	FWD/SS	FWD (FWD Still/Slow) position
	-E	FWD/SS-REV	Intermodal position
	-F	REV	REV (REV Still/Slow) position
Odd number (1, 3, 5, 7, 9, B, D, F)	-0	REV-OFFSTOP	Intermodal position
	-1	OFFSTOP	Pinch roller OFF position
	-2	OFFSTOP-FFREWB	Intermodal position
	-3	FFREWB	FF/REW Brake position
	-4	FFREWB-FFREW	Intermodal position
	-5	FFREW	FF/REW position

5.3.6 EMG detail information <2>

The type of the cassette tape and the cassette tape winding position can be confirmed based on the figure in EMG detail information <2> .

Note:

- **EMG detail information <2> is the reference information stored using the remaining tape detection function of the cassette tape. As a result, it may not identify cassette correctly when a special cassette tape is used or when the tape has variable thickness.**

*5 : Cassette tape type <1>

Display	Cassette tape type <1>
00	Cassette type not identified
16	Large reel/small reel (T-0 to T-15/T-130 to T-210) not classified
82	Small reel, thick tape (T-120) identified/thin tape (T-140) identified
84	Large reel (T-0 to T-60) identified
92	Small reel, thick tape (T-130) identified/thin tape (T-160 to T-210) identified
93	Small reel, thick tape/C cassette (T-0 to T-100/C cassette) not classified
C3	Small reel, thick tape/C cassette (T-0 to T-100/C cassette) being classified
D3	Small reel, thick tape/C cassette (T-0 to T-100/C cassette) being classified
E1	C cassette, thick tape (TC-10 to TC-20) identified
E2	Small reel, thick tape (T-0 to T-100) identified
E9	C cassette, thin tape (TC-30 to TC-40) identified
F1	C cassette, thick tape/thin tape (TC-10 to TC-40) not classified

Notes:

- **Cassette tape type <1> is identified a few times during mode transition and the identification count is variable depending on the cassette tape type. If an EMG occurs in the middle of identification, the cassette tape type may not be able to be identified.**
- **If other value than those listed in the above table is displayed, the cassette tape type is not identified.**

*6 : Cassette tape winding position

The cassette tape winding position at the moment of EMG is displayed by dividing the entire tape (from the beginning to the end) in 21 sections using a hex number from “00” to “14”.

00 : End of winding
14 : Beginning of winding
FF : Tape position not identified

*7 : Cassette tape type <2> (Winding area)

Display	Cassette tape type <2>		(Reference) Word data (Beginning) (End)
00	Cassette type not identified		
04 - 08	C cassette, thick tape	TC-10	(0497 - 0506) (0732 - 0858)
05 - 06	Small reel, thick tape	T-20	(05A9 - 0661)
05 - 0C	C cassette, thick tape	TC-20P	(0599 - 05FF) (0AA1 - 0C07)
06 - 0C	C cassette, thin tape	TC-40	(0623 - 063D) (0C41 - 0CC3)
06 - 0C	C cassette, thin tape	TC-30	(0611 - 0638) (0C0C - 0CB2)
07 - 08	Small reel, thick tape	T-40	(07CC - 08E5)
09 - 0B	Small reel, thick tape	T-60	(09FD - 0B78)
0C - 0D	Small reel, thick tape	T-80(DF-160)	(0C20 - 0DFC)
0D - 0F	Small reel, thick tape	T-90(DF-180)	(0D31 - 0F3E)
0E - 10	Small reel, thick tape	T-100	(0E43 - 107F)
10 - 12	Small reel, thin tape	T-140	(10E1 - 120C)
10 - 13	Small reel, thick tape	T-120(DF-240)	(1073 - 1313)
11 - 14	Small reel, thick tape	T-130	(1185 - 1429)
12 - 14	Small reel, thin tape	T-160	(12D3 - 141F)
13 - 14	Small reel, thin tape	T-210(DF-420)	(1373 - 14C3)
13 - 14	Small reel, thin tape	T-180(DF-360)	(1357 - 14C0)
13 - 14	Small reel, thin tape	T-168	(1395 - 14EE)
13 - 14	Small reel, thick tape	DF-300	(13A8 - 14CE)
15 - 16	Large reel	T-20	(1536 - 1618)
16 - 17	Large reel	T-30	(1647 - 175A)
17 - 18	Large reel	T-40	(1759 - 189C)
19 - 1B	Large reel	T-60	(1989 - 1B2F)

Note:

- **The values of cassette tape type <2> in the above table are typical values with representative cassette tapes.**

5.3.7 EMG detail information <3>

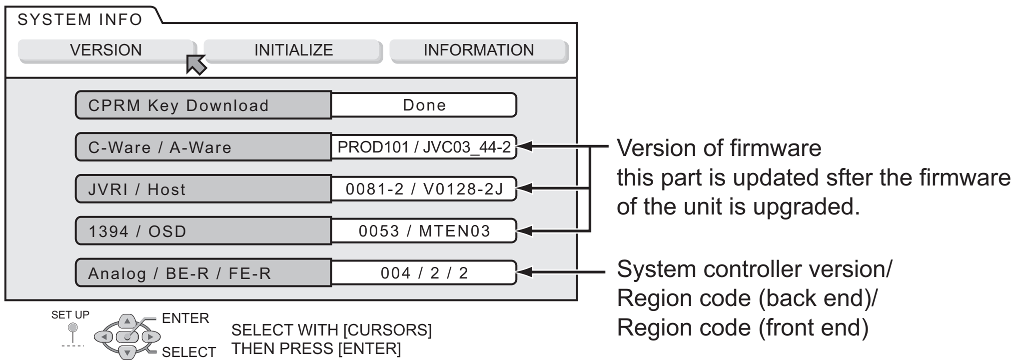
Three deck operation modes preceding the deck operation mode in which the EMG occurs may be confirmed based on the figures in the EMG information detail <3>. For the contents of the displayed information, see the table "Deck operation mode" in section "5.3.5 EMG detail information <1>".

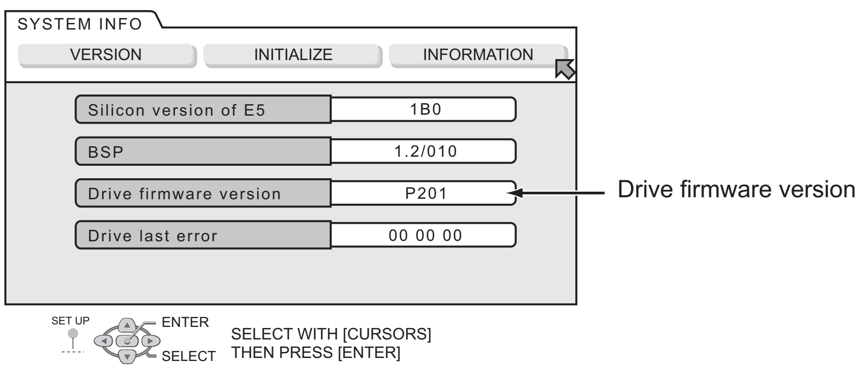
5.4 Display function of DVD section

5.4.1 Displaying SYSTEM INFO

SYSTEM INFO contains information on firmware version of the unit and the mechanism drive, and an initialize execution menu.

(1) Set the unit to the Jig RCU mode.
(2) Transmit "8b" from the JIG RCU.
(3) SYSTEM INFORMATION menu is displayed in the screen.
(4) To move cursor in SYSTEM INFO, use the " ▲", "▼ ", "◀ ", and " ▶ " buttons of a remote control unit attached to product.
(5) To quit the SYSTEM INFO menu, transmit "8b" from the JIG RCU..
(6) Cancel JIG RCU mode.





NOTE:

Items other than the ones described above are not used in service work.

5.4.2 Upgrading firmware of the unit

- Firmware upgrade disk supports only DVD-RAM media
- When firmware needs to be upgraded, Digital Video Storage CSG will distribute a firmware upgrade disk.

(1) Set the unit to the Jig RCU mode.
(2) Set the unit to DVD mode.(DVD lamp lights up)
(3) Transmit "70" from the JIG RCU.
(4) "UPDATE" appears in FDP, load the upgrade disk on the disk tray then close the disk tray.
(5) Wait for approx.30 seconds while FDP is displayed as "UPDATE."
(6) Then, "FW UPDATE" appears in FDP. It takes approx. 3 minutes at maximum to upgrade firmware.
(7) The tray is ejected. Then, take out the disk and close the tray.
(8) The tray is ejected. Then, take out the disk and close the tray.Turn off the unit, and unplug the AC power cord from the AC outlet. Then plug the AC power cord into the AC outlet.
(9) "LOADING" of FDP disappears. then, turn on the unit.
(10) Display the SYSTEM INFO menu, and check the version of the firmware.
(11) Cancel the JIG RCU mode

ATTENTION :

Firmware may sometimes not be upgraded successfully.
If firmware is not upgraded successfully, the tray opens, and "ERROR" appears in FDP.
If firmware is upgraded successfully, the tray opens, and "OPEN" appears in FDP.
If unplug the AC power cord from the AC outlet while "ERROR" appears, data in the flash memory is destroyed and the unit cannot start: the flash memory needs to be replaced.
After upgrading procedure, pay enough attention to FDP when the tray opens.
When "ERROR" appears, upgrade firmware again in the following way to restore the firmware

(1) Transmit "70" from theJIG RCU while the tray opens.
(2) When "UPDATE" appears in FDP, close the tray and make the unit read the disk. Upgrading starts.
(3) After (2), perform upgrading procedure (4) - (10) of 5.4.2 Upgrading firmware of the unit above.

5.4.3 The exchange method of a tray fitting

When DVD unit is exchanged, please transplant a tray fitting from an old drive, or change for a new tray fitting.

5.4.4 Initialization method

Since the information on internal is as follows if it initializes, before enforcement, it is required to surely obtain the approval of a customer.
All initial setting of DVD returns to an initial state.

(1) Set the unit to theJIG RCU mode.
(2) Set the unit to DVD mode.(DVD lamp lights up)
(3) Press the "POWER" button on the unit to turn off the unit.
(4) Transmit "6F" from the JIG RCU.
(5) Confirm the FDP changes from "FACTORY" to "CHECK OK".
(6) Press the "VCR/DVD" buttojn on the unit so that the VCR lamp lights up on the unit.
(7) To cancel JIG RCU mode transmit "9D" from the JIG RCU.

5.4.5 The setting method of a region code

A region code should be set after a DVD unit is replaced.
While a DVD unit is in a warehouse as a stock, a region code of the DVD unit is not determined.
Only replacement of a DVD unit may cause abnormal playback of Disc.
Set a region code of a DVD unit in the following procedure.

(1) Replace a DVD unit.
(2) Set the unit to JIG RCU mode.
(3) nsert a DVD-RAM disc in the unit to make the unit read the DVD-RAM disc.(The DVD-RAM disk used in this procedure is not a disk for upgrade. If it is a DVD-RAM disk, it is good anything.)
(4) Transmit "F2" from the JIG RCU.
(5) "REGION 1" is displayed on FDP.
(6) Set the unit to STANDBY mode.
(7) Turn the POWER switch ON.
(8) To cancel JIG RCU mode transmit "9D" from the JIG RCU.
(9) Colon is displayed on a clock on FL display.
(10) Setting is completed in the procedure above.

Preliminary

CHARTS AND DIAGRAMS

NOTES OF SCHEMATIC DIAGRAM

Safety precautions
The Components indentified by the symbol ⚠ are critical for safety. For continued safety, replace safety critical components only with manufacturer's recommended parts.

1. Units of components on the schematic diagram

Unless otherwise specified.

1) All resistance values are in ohm. 1/6 W, 1/8 W (refer to parts list).
   Chip resistors are 1/16 W.
   K: KΩ(1000Ω), M: MΩ (1000KΩ)
2) All capacitance values are in μF, (P: PF).
3) All inductance values are in μH, (m: mH).
4) All diodes are 1SS133, MA165 or 1N4148M (refer to parts list).

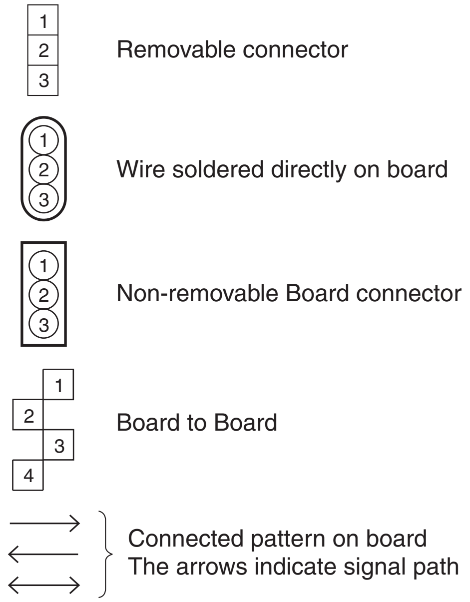
Note: The Parts Number, value and rated voltage etc. in the Schematic Diagram are for references only. When replacing the parts, refer to the Parts List.

2. Indications of control voltage

AUX : Active at high.

$\overline{\text{AUX}}$ or AUX(L) : Active at low.

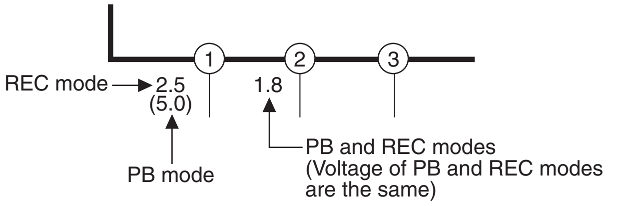
3. Interpreting Connector indications



Note: For the destination of each signal and further line connections that are cut off from the diagram, refer to "BOARD INTERCONNECTIONS"

4. Voltage measurement

1) Regulator (DC/DC CONV) circuits
   REC : Colour bar signal.
   PB : Alignment tape (Colour bar).
   — : Unmeasurable or unnecessary to measure.
2) Indication on schematic diagram
   Voltage indications for REC and PB mode on the schematic diagram are as shown below.

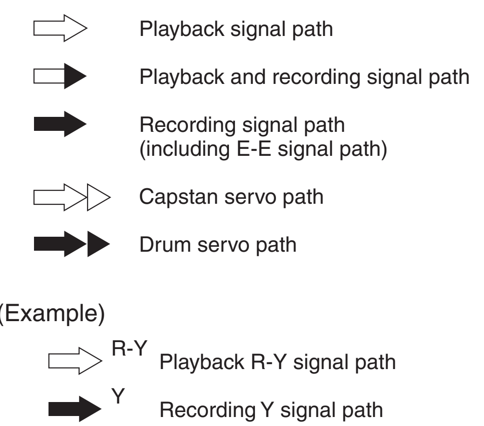


Note: If the voltages are not indicated on the schematic diagram, refer to the voltage charts.

5. Signal path Symbols

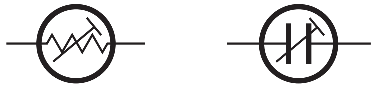
The arrows indicate the signal path as follows.

NOTE : The arrow is DVC unique object.



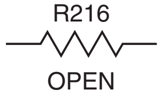
6. Indication of the parts for adjustments

The parts for the adjustments are surrounded with the circle as shown below.



7. Indication of the parts not mounted on the circuit board

"OPEN" is indicated by the parts not mounted on the circuit board.



CIRCUIT BOARD NOTES

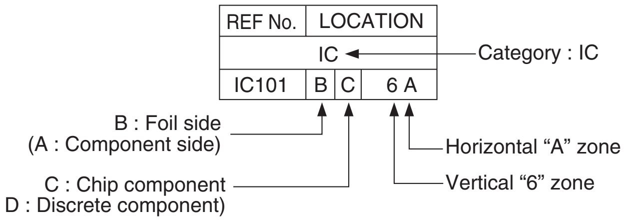
1. Foil and Component sides

1) Foil side (B side) :
   Parts on the foil side seen from foil face (pattern face) are indicated.
2) Component side (A side) :
   Parts on the component side seen from component face (parts face) indicated.

rts location are indicated by guide scale on the circuit board.

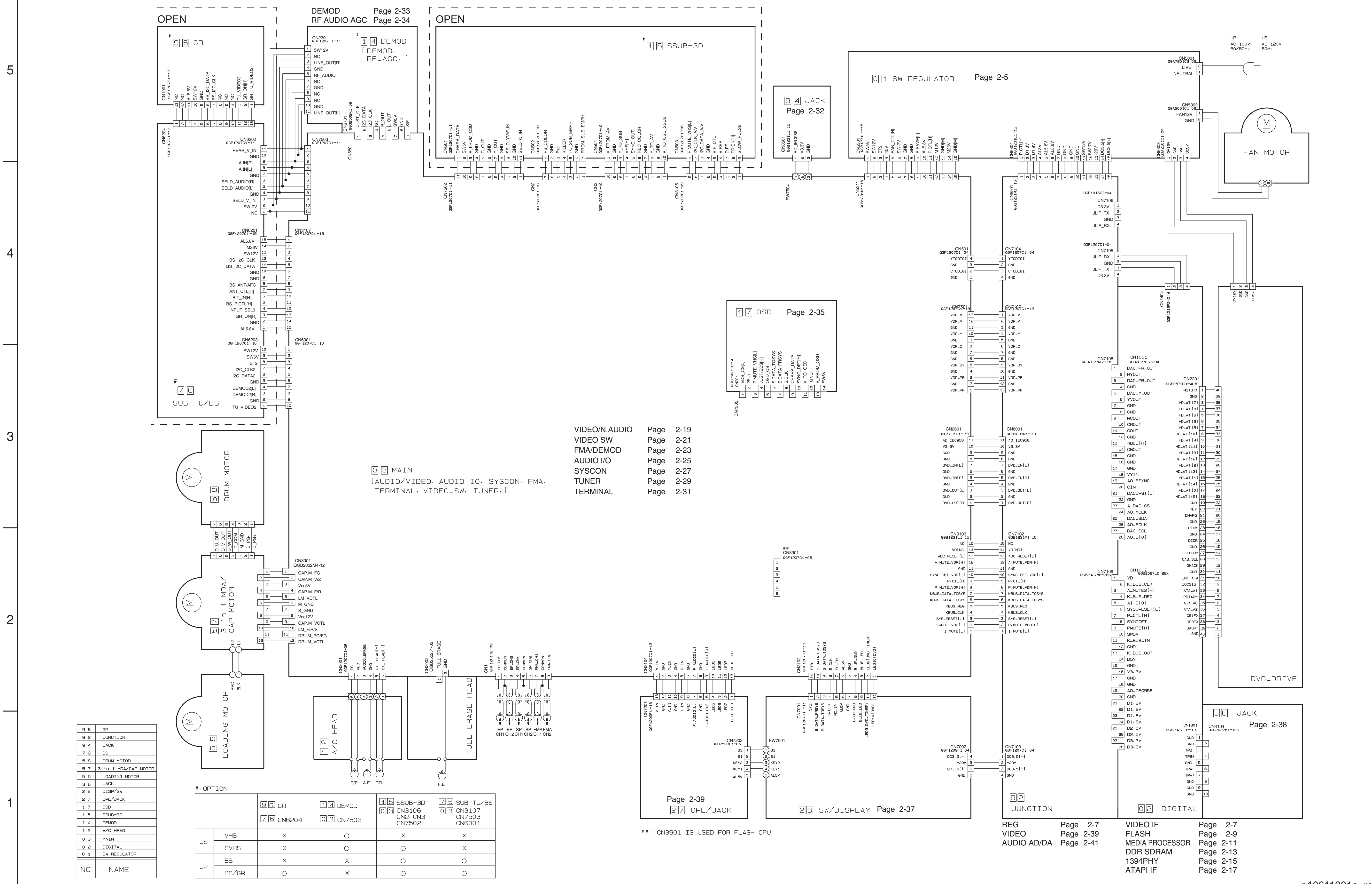
2. Parts location guides

Parts location are indicated by guide scale on the circuit board.



Note: For general information in service manual, please refer to the Service Manual of GENERAL INFORMATION Edition 4 No. 82054D (January 1994).

■ BOARD INTERCONNECTIONS



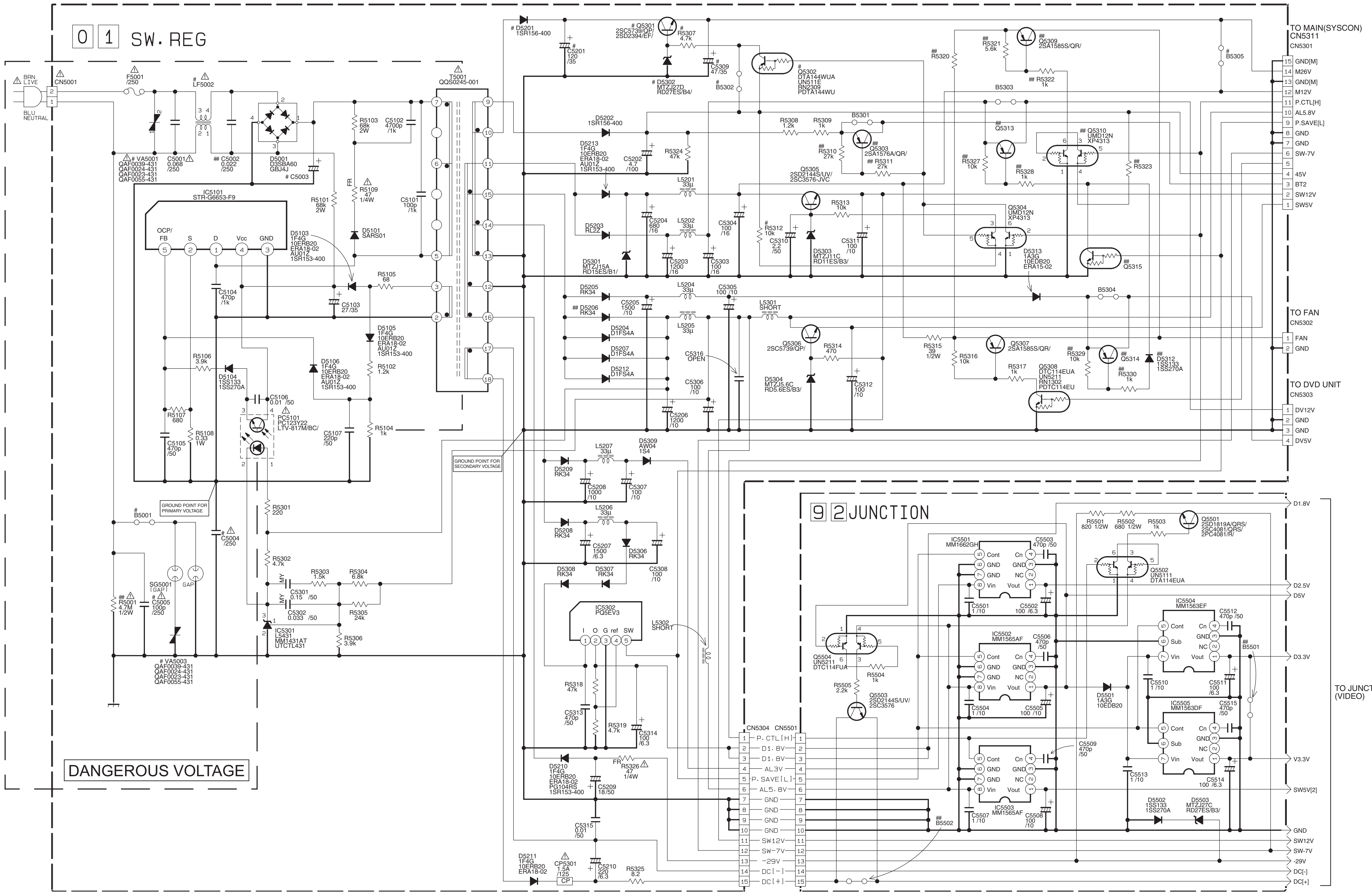
NO	NAME
9 6	GR
9 2	JUNCTION
9 4	JACK
7 6	BS
5 8	DRUM MOTOR
5 7	3 in 1 MDA/CAP MOTOR
5 5	LOADING MOTOR
3 6	JACK
2 8	DISP/SW
2 7	OPE/JACK
1 7	OSD
1 5	SSUB-3D
1 4	DEMOD
1 2	A/C HEAD
0 3	MAIN
0 2	DIGITAL
0 1	SW REGULATOR

#:OPTION

		96 GR 76 CN6204	14 DEMOD 03 CN7503	15 SSUB-3D 03 CN3106 CN2, CN3 CN7502	76 SUB TU/BS 03 CN3107 CN7503 CN6001
US	VHS	X	○	X	X
	SVHS	X	○	○	X
JP	BS	X	X	○	○
	BS/GR	○	X	○	○

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■ SW.REG AND JUNCTION SCHEMATIC DIAGRAMS



##MARK ELEMENTS ARE NOT MOUNTED.

#DIFFERENCE TABLE 1

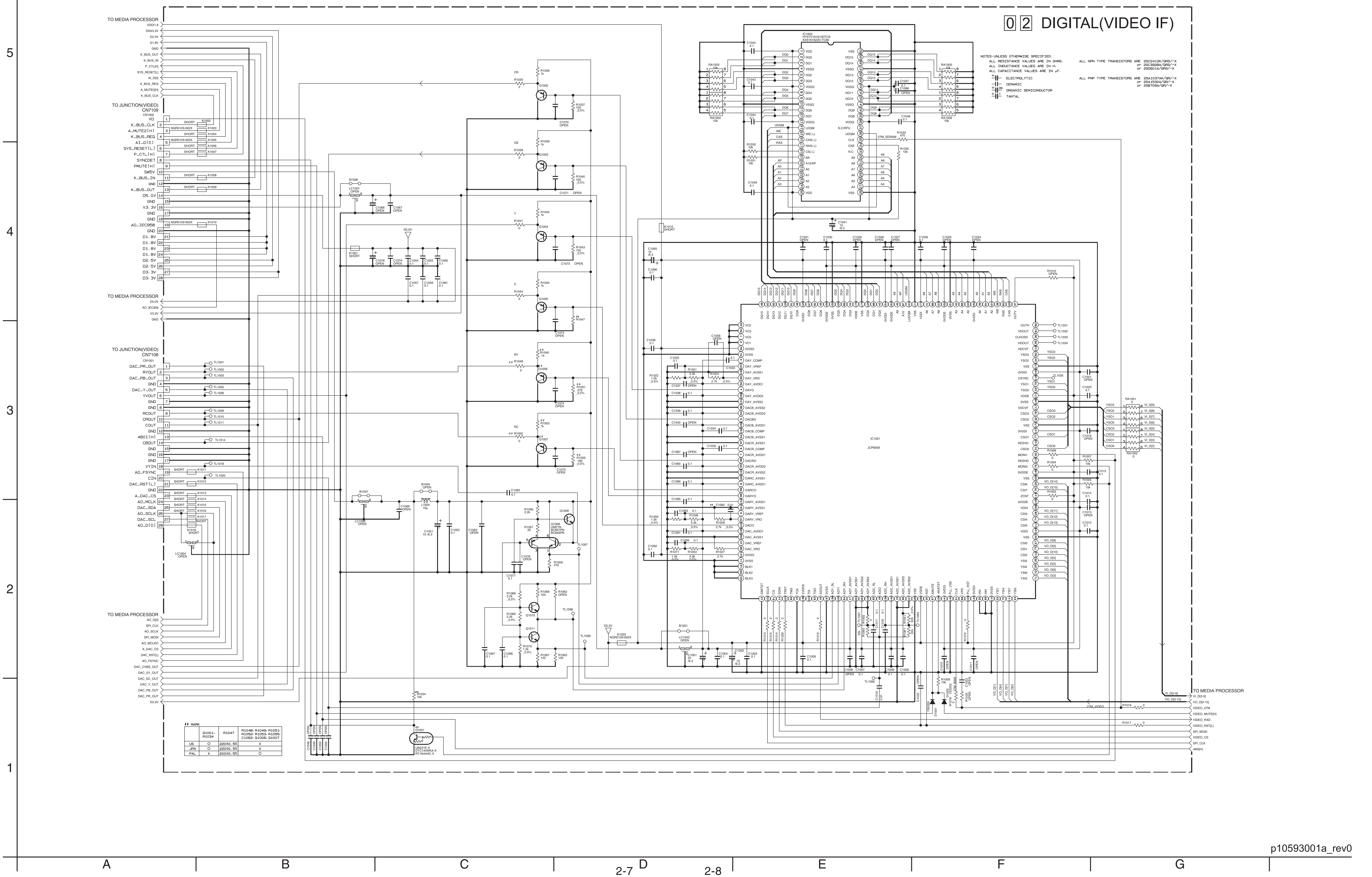
		B5001	B5302	B5305	C5003	C5004	C5005	F5001	Q5302	VA5001 VA5003	HIGH SPEED FF/REW C5201 C5309 D5201 D5302 Q5301 R5307 R5312	LF5002
JPN	(W/O BS)	YES	NO	NO	330 /200	4700p	YES	2A	YES	YES	YES	QQR0908-001 QQR0984-001 QQR1215-001
	(WITH BS)		YES						NO			
EURO		NO	NO	YES	82 /400	2200p	NO	T2AL	NO	NO	NO	QQR1031-001

NOTES: UNLESS OTHERWISE SPECIFIED.
ALL RESISTANCE VALUES ARE IN OHMS.
ALL INDUCTANCE VALUES ARE IN H.
ALL CAPACITANCE VALUES ARE IN μF.

- ELECTROLYTIC
- CERAMIC
- MYLER
- NON POLAR

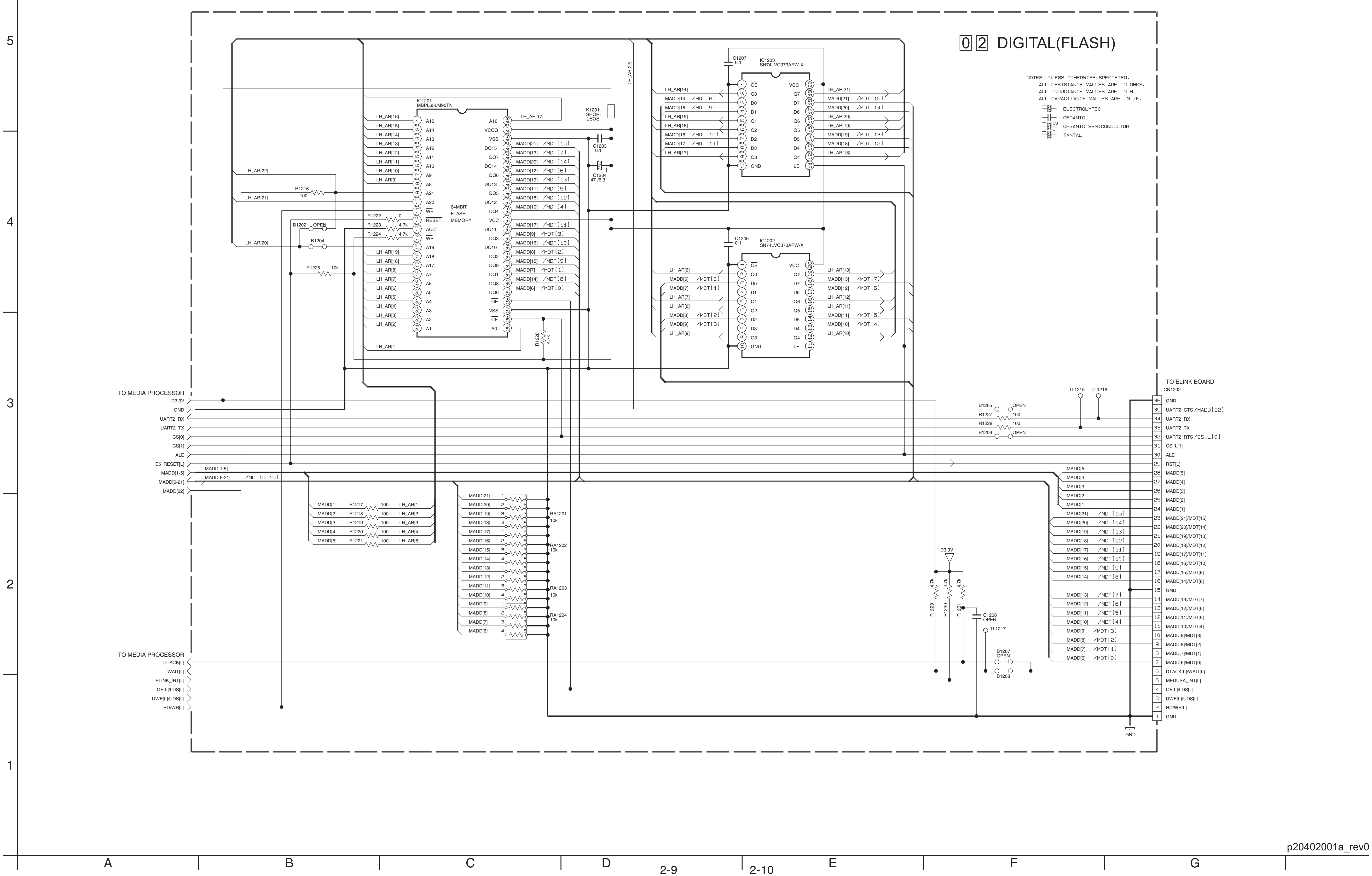
p20371001a_rev0

■ DIGITAL(VIDEO IF) SCHEMATIC DIAGRAM



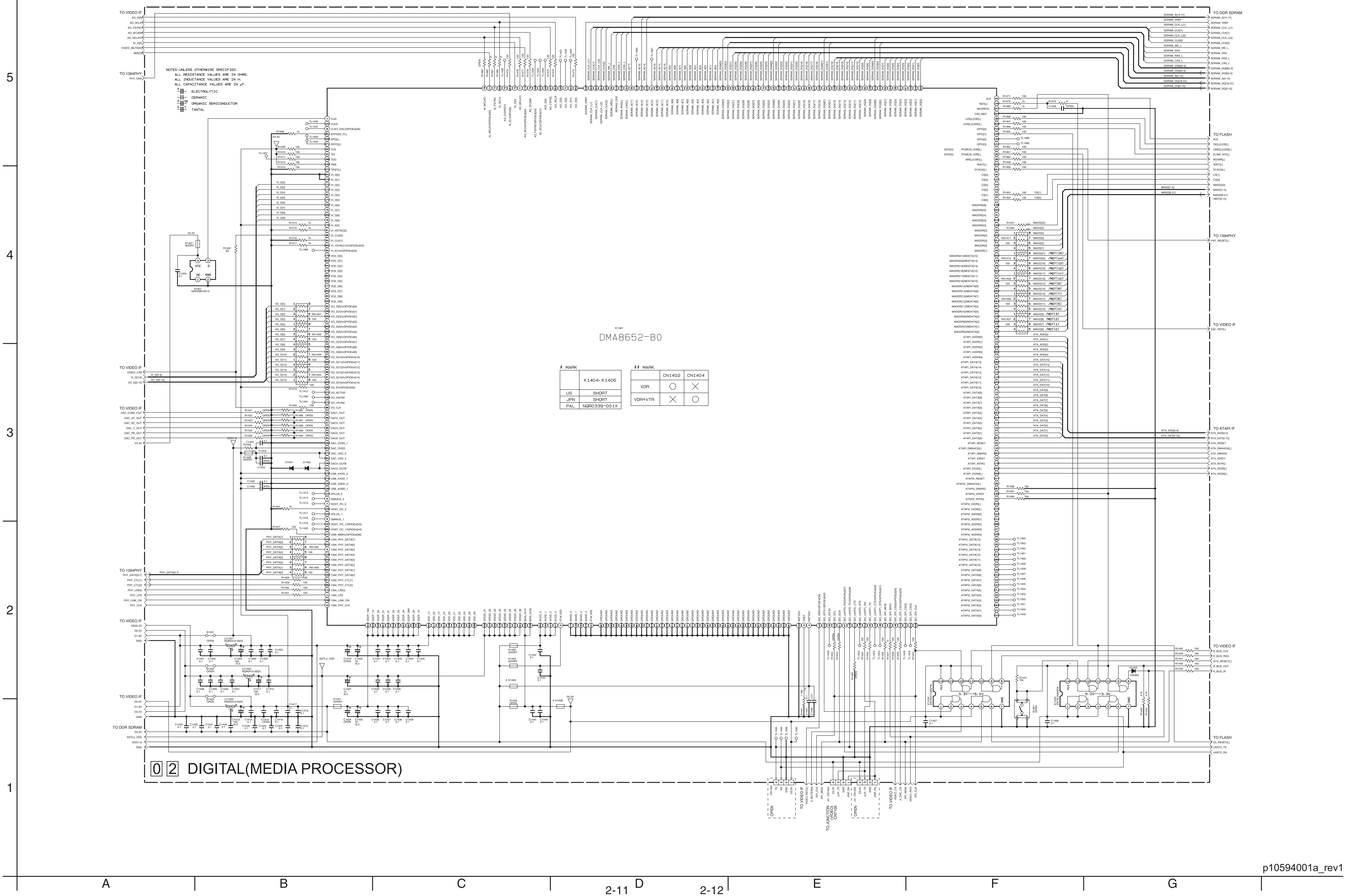
p10593001a_rev0

■ DIGITAL(FLASH) SCHEMATIC DIAGRAM



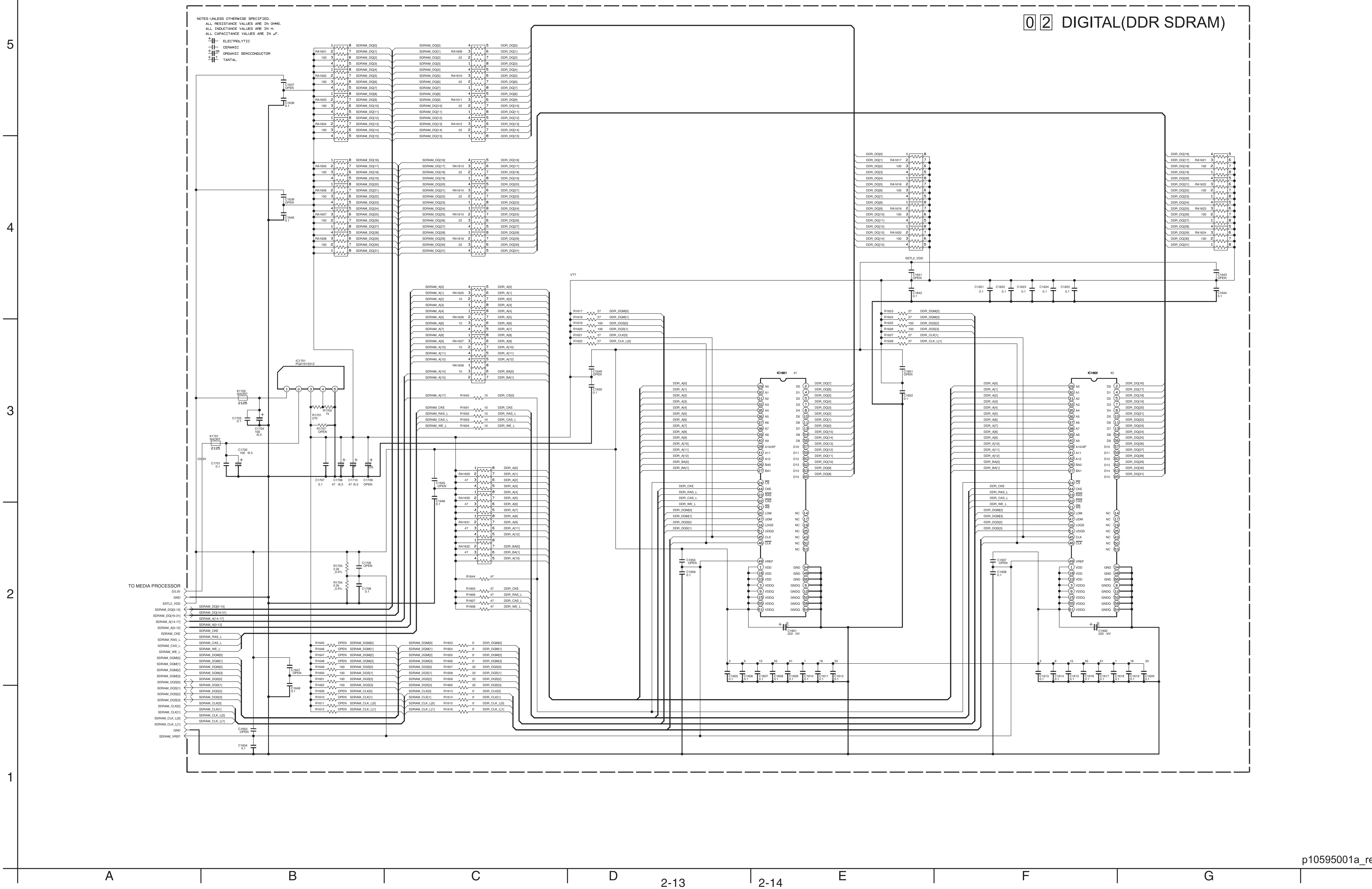
p20402001a_rev0

■ DIGITAL(MEDIA PROCESSOR) SCHEMATIC DIAGRAM



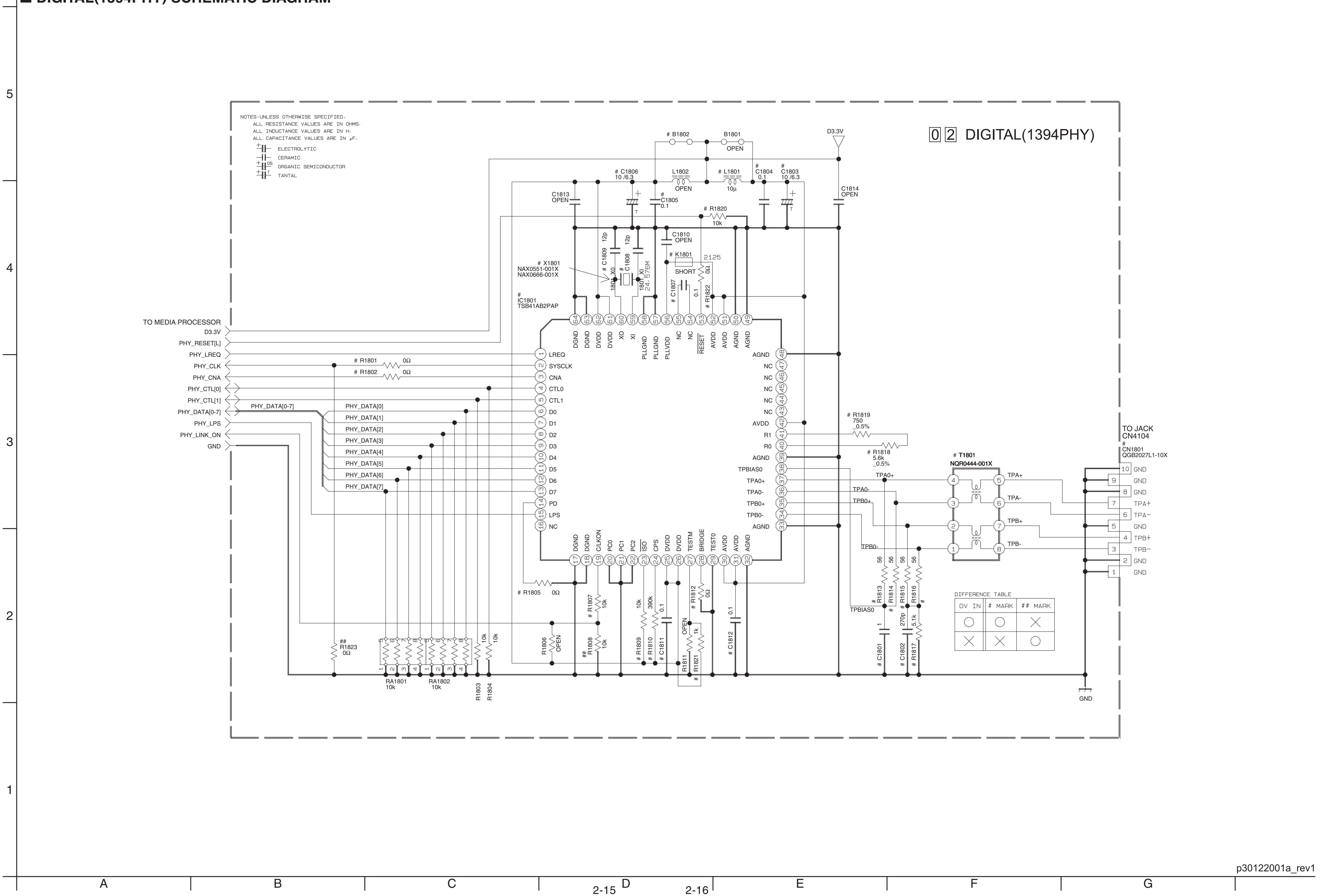
p10594001a_rev1

■ DIGITAL(DDR SDRAM) SCHEMATIC DIAGRAM



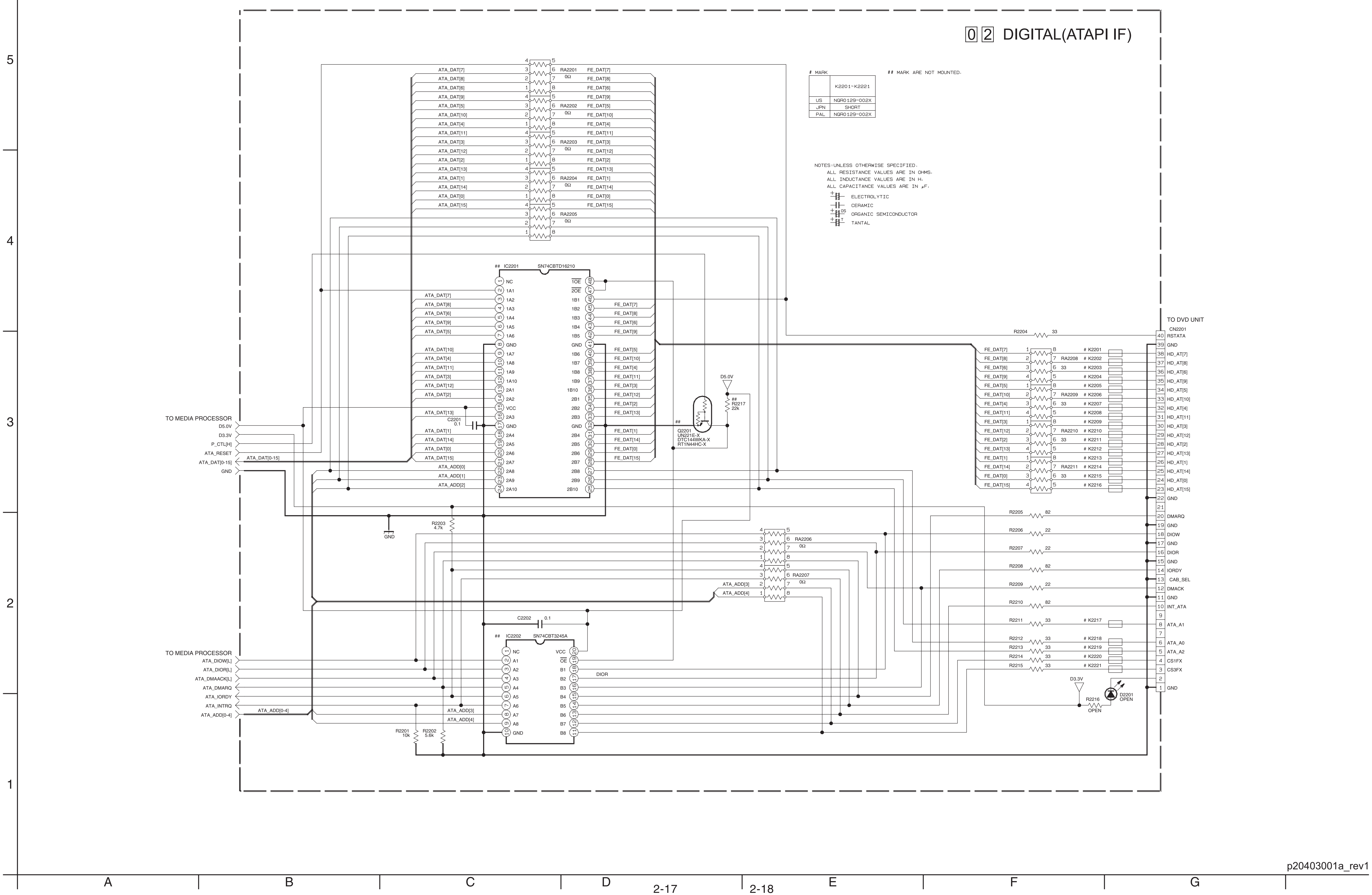
p10595001a_rev0

■ DIGITAL(1394PHY) SCHEMATIC DIAGRAM



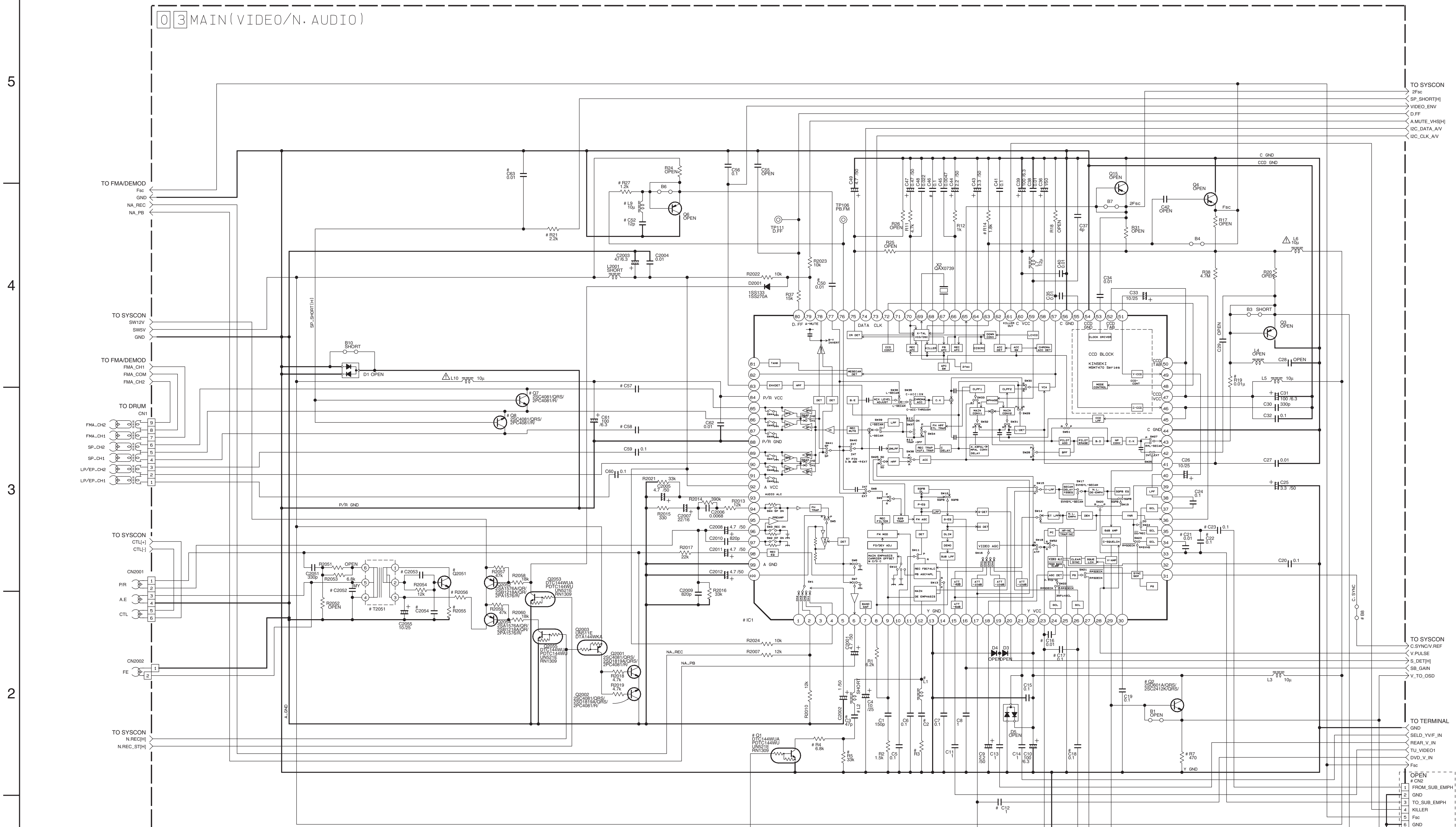
p30122001a_rev1

■ DIGITAL(ATAPI IF) SCHEMATIC DIAGRAM



p20403001a_rev1

■ MAIN(VIDEO/N.AUDIO) SCHEMATIC DIAGRAM



DIFRENCE TABLE

	IC1	Q1	R3	R4, R5 C3, L2	C2	L1	C16, C18 C21, C23	C12, C17 C22, B8	Q2, R7	R27, L9 C50, C52	R19	CN2, CN3
VHS	JCP8060-NVA	×	8.2k	×	33p	SHORT	×	○	○	×	×	×
S-VHS	JCP8060-NSA	○	120	○	4p	100μ	○	×	×	○	○	○

	Q7, Q8 R21, C63	C57, C58
WITH SEP	○	0.01
W/O SEP	×	0.1

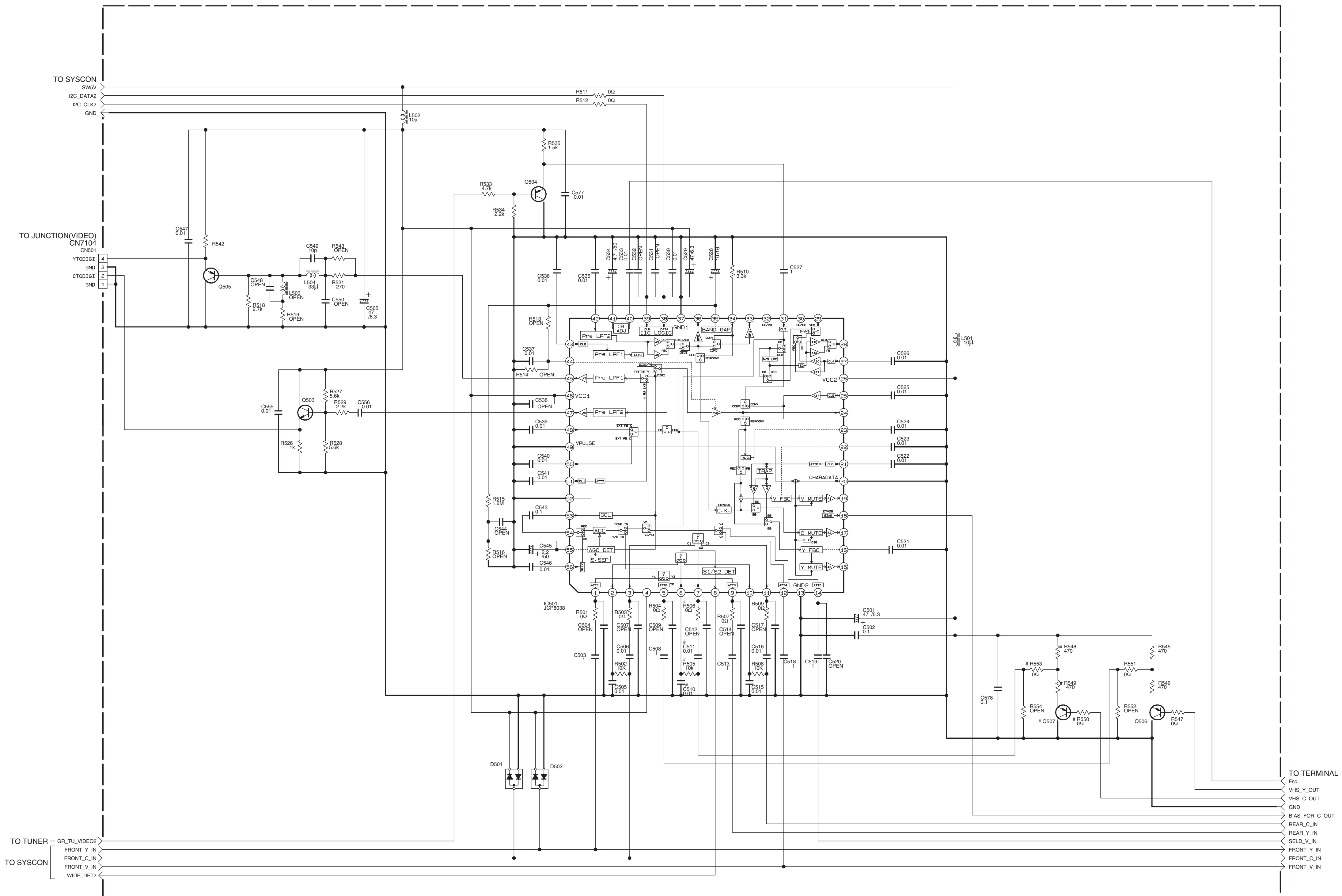
	T2051	Q2051	R2055	R2056	C2052	C2053	C2054
JP	QQR1197-001A	2SC4097/QR/	4.7	47	0.047	0.0033	0.0068
US	PELN0832	2SC4081/QRS/	3.3	82	0.082	0.0047	0.022

NOTES: UNLESS OTHERWISE SPECIFIED.
ALL RESISTANCE VALUES ARE IN OHMS.
ALL INDUCTANCE VALUES ARE IN H.
ALL CAPACITANCE VALUES ARE IN μF.

ELECTROLYTIC
CERAMIC
MYLER
NON POLAR

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■ MAIN(VIDEO SW) SCHEMATIC DIAGRAM



DIFFERENCE TABLE

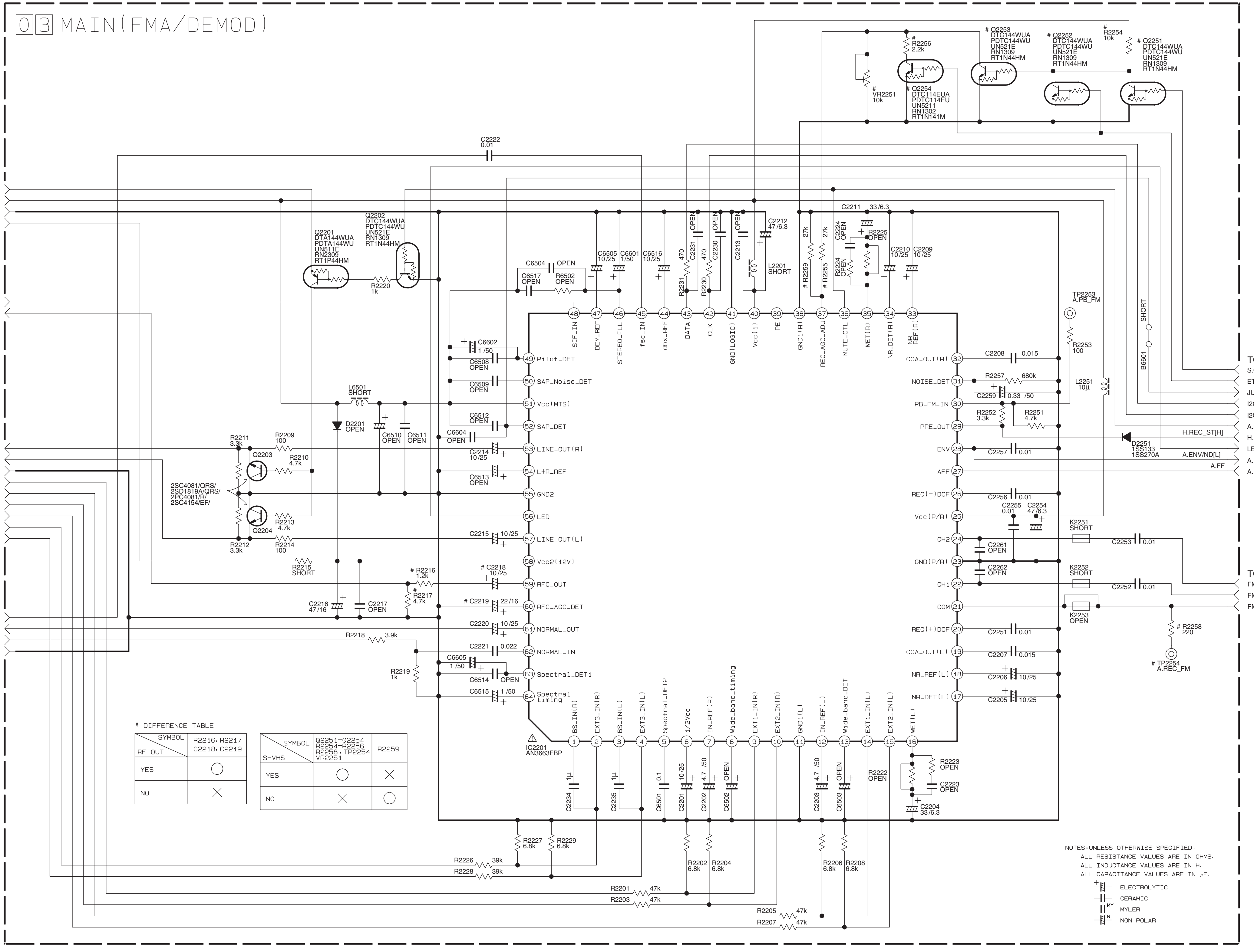
	Q507 C510 R505 C511 R506 R548 R549 R550 R553
SVHS	O
VHS	X

NOTES: UNLESS OTHERWISE SPECIFIED.
ALL RESISTANCE VALUES ARE IN OHMS.
ALL INDUCTANCE VALUES ARE IN H.
ALL CAPACITANCE VALUES ARE IN μF.

- ELECTROLYTIC
- CERAMIC
- MY MYLER
- N NON POLAR

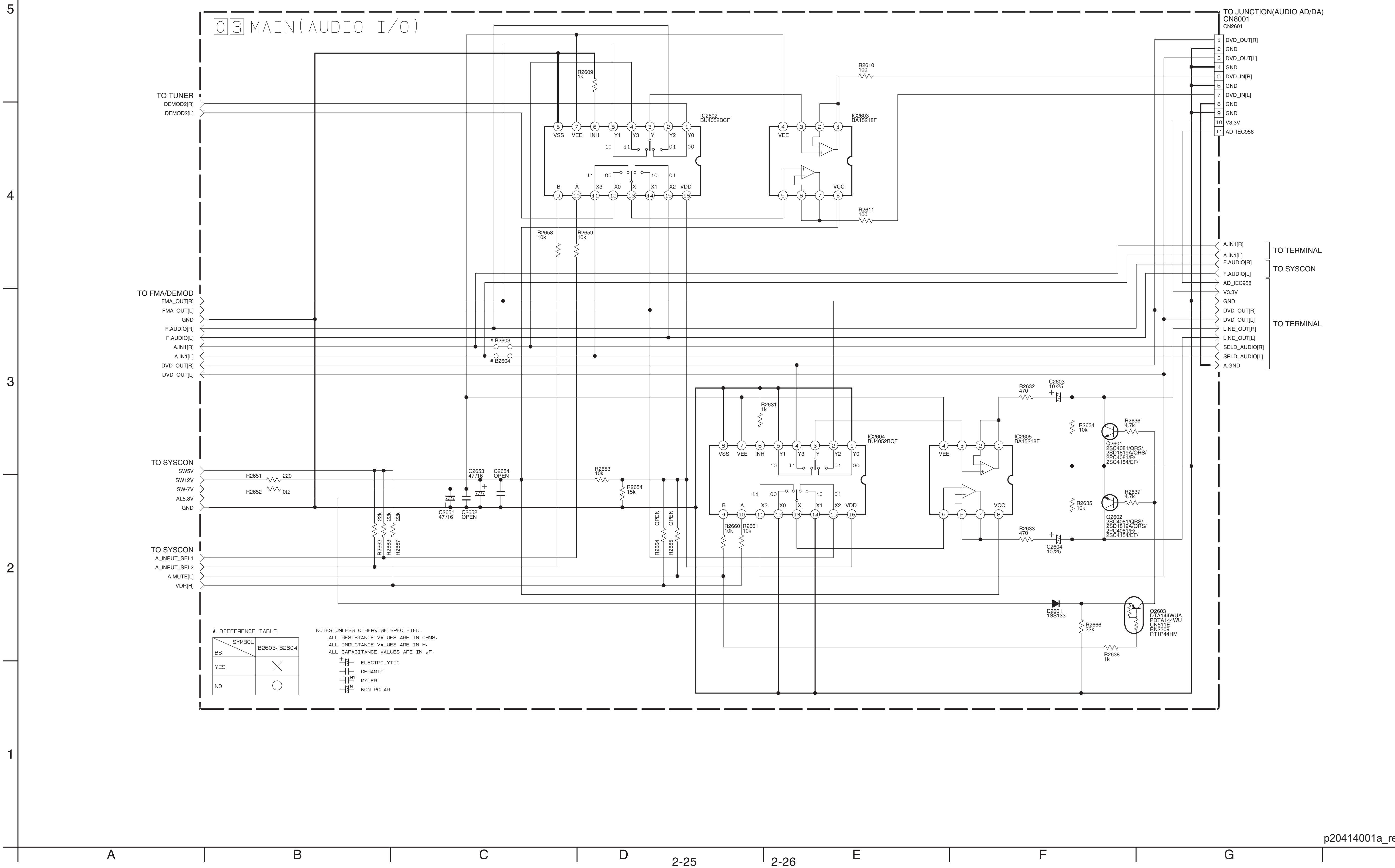
p10607001a_rev0

■ MAIN(FMA/DEMOD) SCHEMATIC DIAGRAM



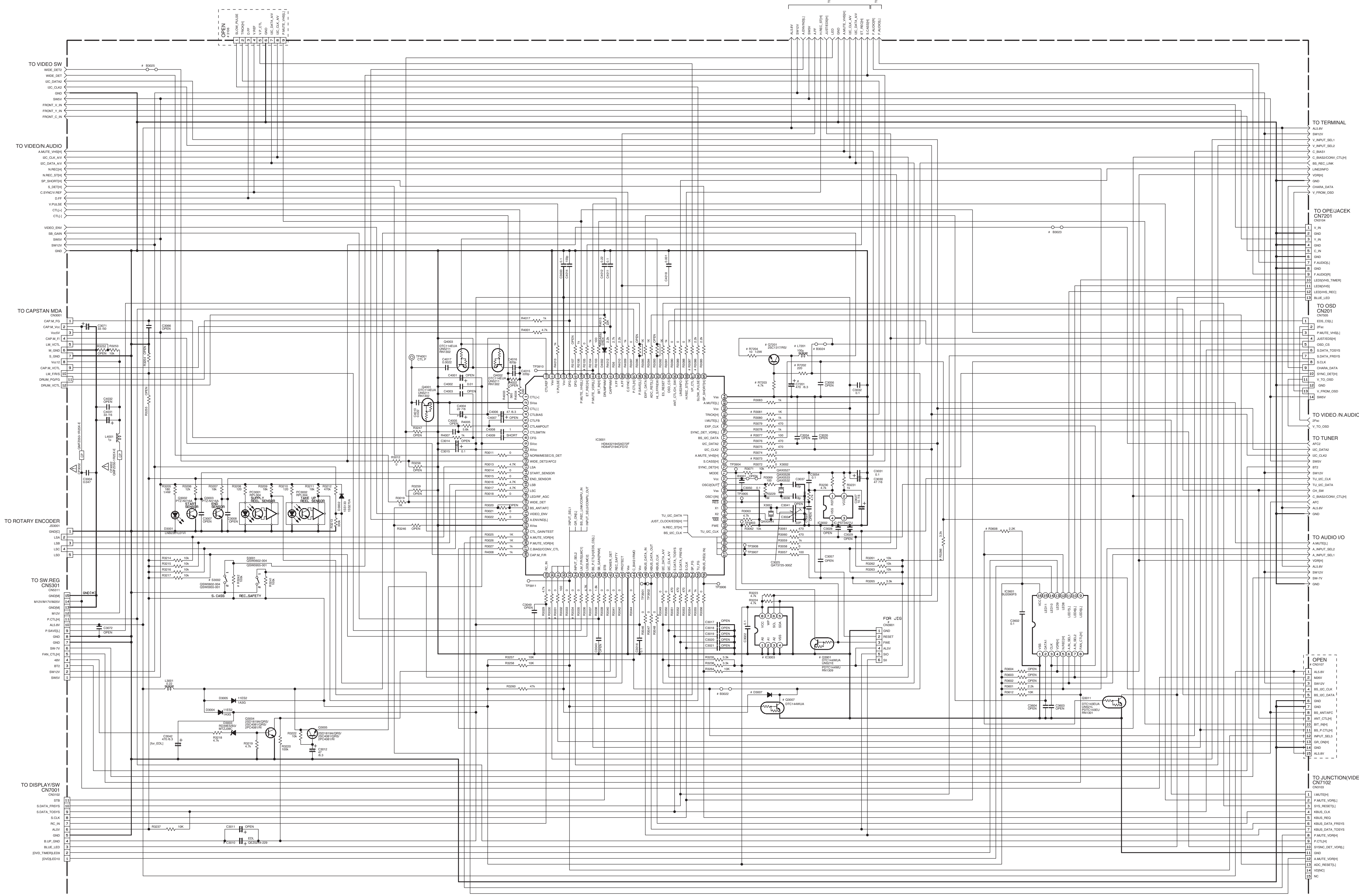
p20413001a_rev0

■ MAIN(AUDIO I/O) SCHEMATIC DIAGRAM



p20414001a_rev0

■ MAIN(SYSCON) SCHEMATIC DIAGRAM



DIFFERENCE TABLE

	CN3106 R3030 R3034 R3073 R3081 R3086 R3087 R3105 R3242 S3002
VHS	NO
SVHS	YES

	CN3107 R3077 R3266 C3010	B3023	B3025	IC3003
JPN	YES	NO	YES	24LC16B/SN CAT24WC16JI BR24C16F X24C16S
US	NO	YES	NO	24LC08B/SN CAT24WC08JI BR24C08F X24C08S

	R3031
WITH GR	YES
W/O GR	NO

	R7202 R7203 R7204 C7201 L7201 Q7201 B3022	B3024	Q3007	D3007
AV COMPU /R.PAUSE	NO	YES	YES	1SS133
C.BOX CTL	YES	NO	NO	NO
BS DIGI LINK	NO	YES	NO	SHORT

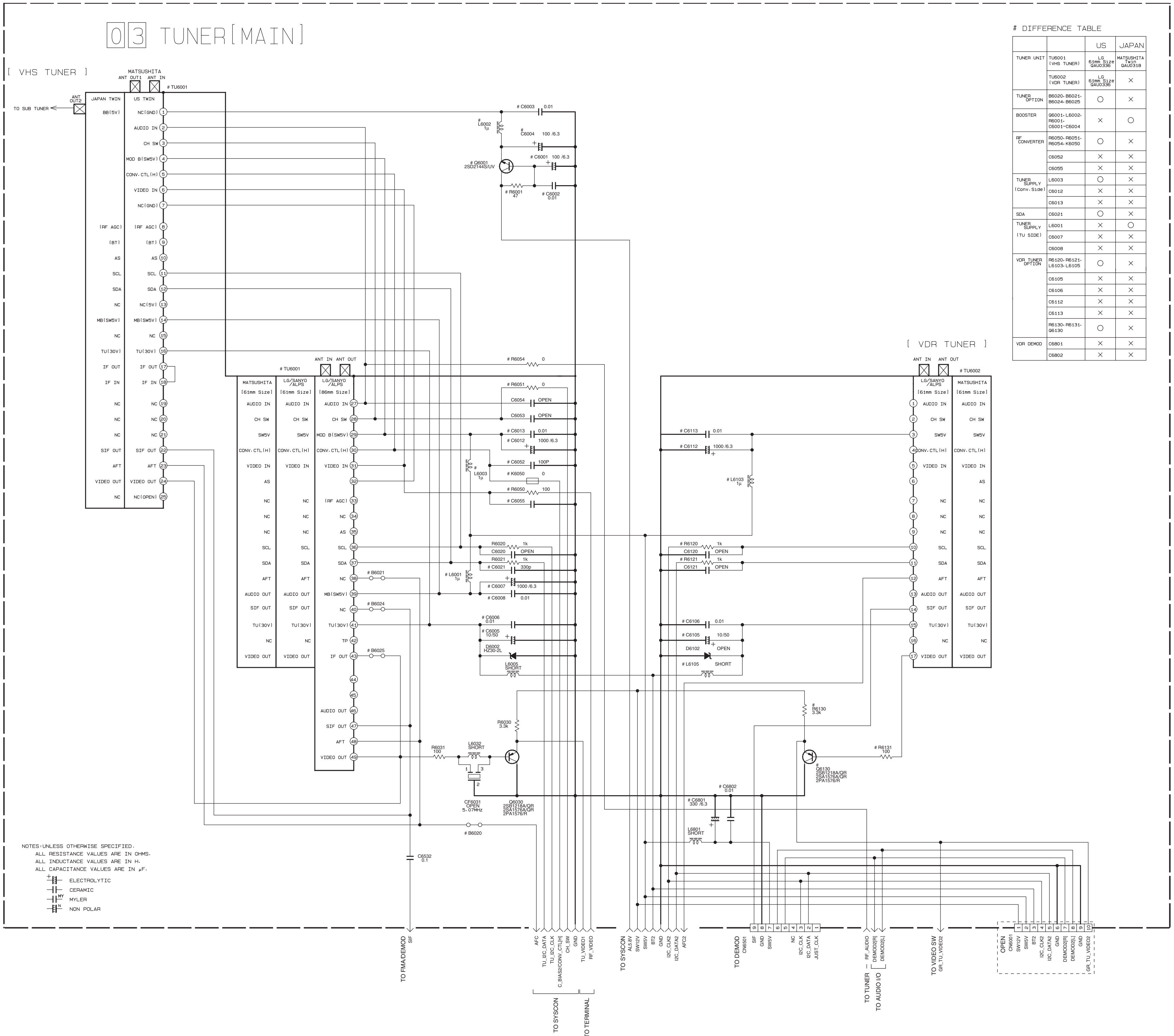
NOTES:UNLESS OTHERWISE SPECIFIED.
ALL RESISTANCE VALUES ARE IN OHMS.
ALL INDUCTANCE VALUES ARE IN H.
ALL CAPACITANCE VALUES ARE IN μF.

ELECTROLYTIC
CERAMIC
MYLER
NON POLAR

p10610001a_rev0

A B C D E F G

■ MAIN(TUNER) SCHEMATIC DIAGRAM

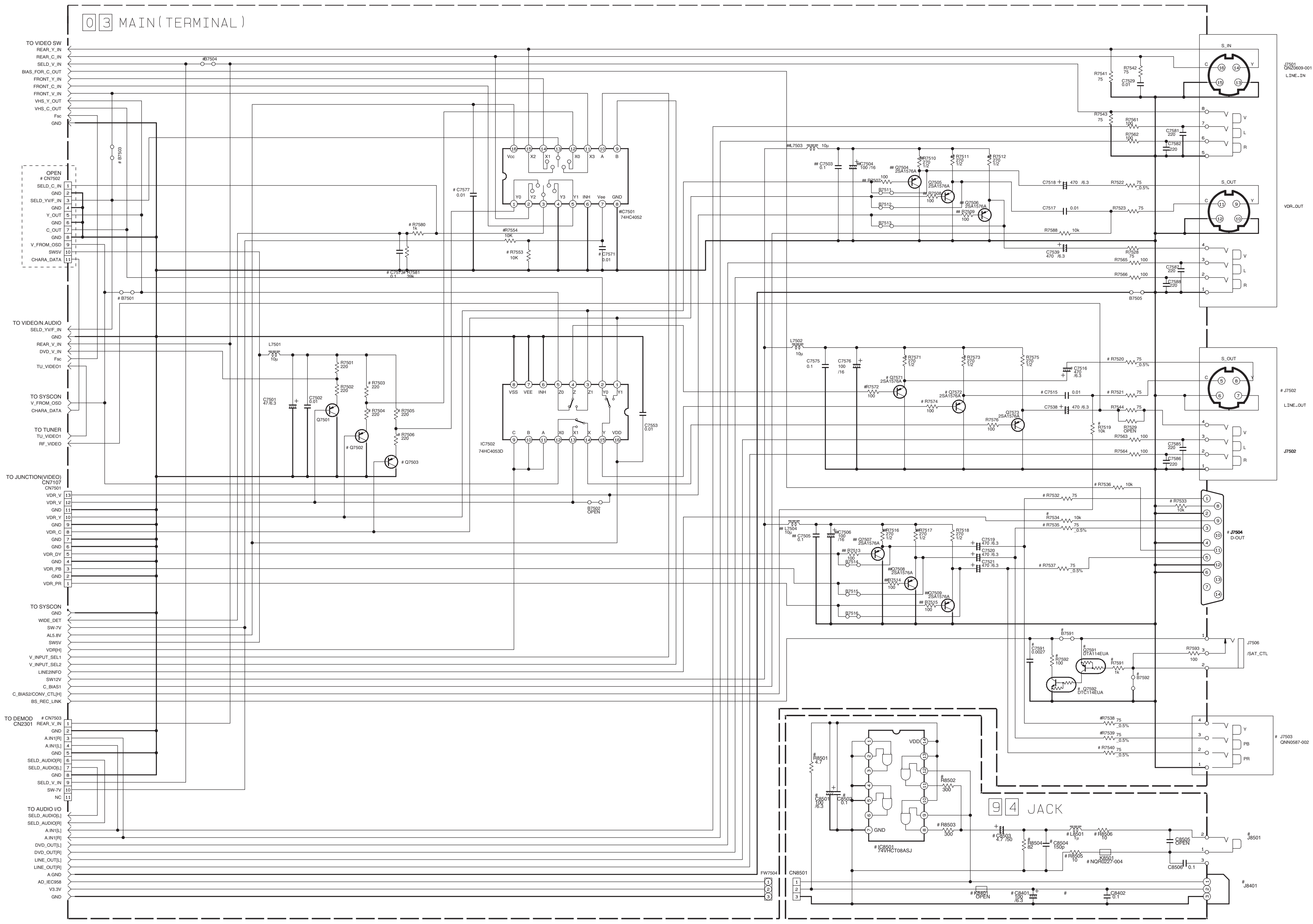


DIFFERENCE TABLE

		US	JAPAN
TUNER UNIT	TU6001 (VHS TUNER)	LG 61mm Size QAU0336	MATSUSHITA Twin QAU0318
	TU6002 (VDR TUNER)	LG 61mm Size QAU0336	×
TUNER OPTION	B6020, B6021, B6024, B6025	○	×
BOOSTER	Q6001, L6002, R6001, C6001–C6004	×	○
RF CONVERTER	R6050, R6051, R6054, K6050	○	×
	C6052	×	×
	C6055	×	×
TUNER SUPPLY (Conv. Side)	L6003	○	×
	C6012	×	×
	C6013	×	×
SDA	C6021	○	×
TUNER SUPPLY (TU SIDE)	L6001	×	○
	C6007	×	×
	C6008	×	×
VDR TUNER OPTION	R6120, R6121, L6103, L6105	○	×
	C6105	×	×
	C6106	×	×
	C6112	×	×
	C6113	×	×
	R6130, R6131, Q6130	○	×
VDR DEMOD	C6801	×	×
	C6802	×	×

p10609001a_rev0

■ MAIN(TERMINAL) AND JACK SCHEMATIC DIAGRAMS



MARKED PARTS ARE NOT MOUNTED

DIFFERENCE TABLE

	J7504 R7536 R7532 R7537 R7533 R7580 R7534 R7581 R7535 R7519	J7503 R7538 R7539 R7540
DOMESTIC MODEL	○	×
US MODEL	×	○

	IC7501 R7503 R7553 C7515 Q7502 R7504 R7554 C7516 Q7503 R7505 R7571 C7571 Q7571 R7506 R7572 C7577 Q7572 R7520 R7573 C7573 CN7502 R7521 R7574	B7501 B7503	J7502
SVHS	○	×	QNN0528-001
VHS	×	○	QNN0587-001

	CN7503	B7504
w/ BS	○	×
w/o BS	×	○

	Q7591 Q7592 R7591 R7592 C7591	B7591 B7592
BS DIGITAL LINK REC	○	×
REMOTE PAUSE	×	○

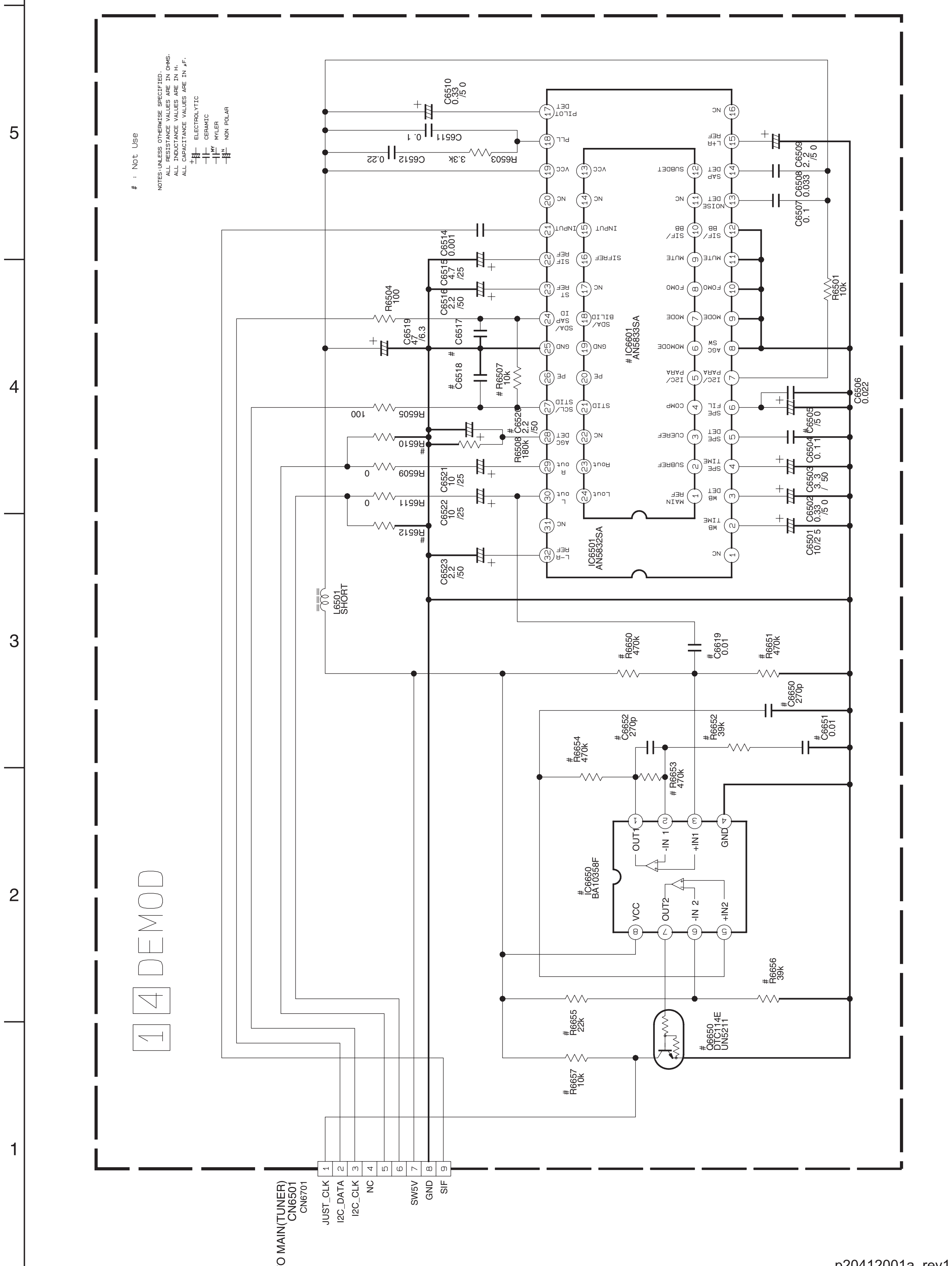
	J8401 C8401 C8402 K8401	IC8501 R8506 L8501 J8501 C8501 K8501 R8501 C8502 R8502 C8503 R8503 C8504 R8504 C8506 R8505
OPT OUT	○	×
COAXIAL OUT	×	○

NOTES: UNLESS OTHERWISE SPECIFIED.
ALL RESISTANCE VALUES ARE IN OHMS.
ALL INDUCTANCE VALUES ARE IN H.
ALL CAPACITANCE VALUES ARE IN μF.
ELECTROLYTIC
CERAMIC
MYLER
NON POLAR

p10606001a_rev0

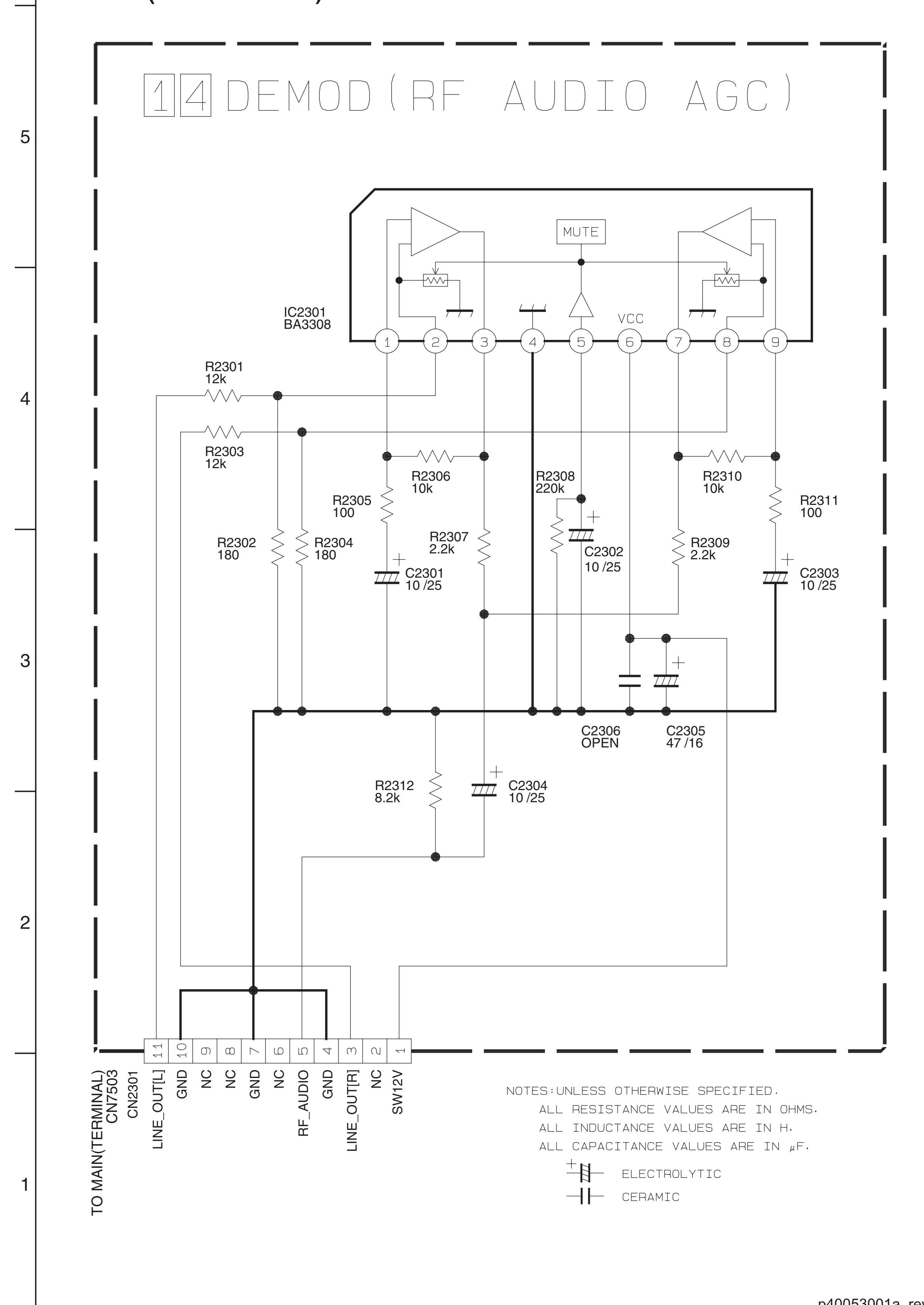
A B C D E F G

■ DEMOD SCHEMATIC DIAGRAM



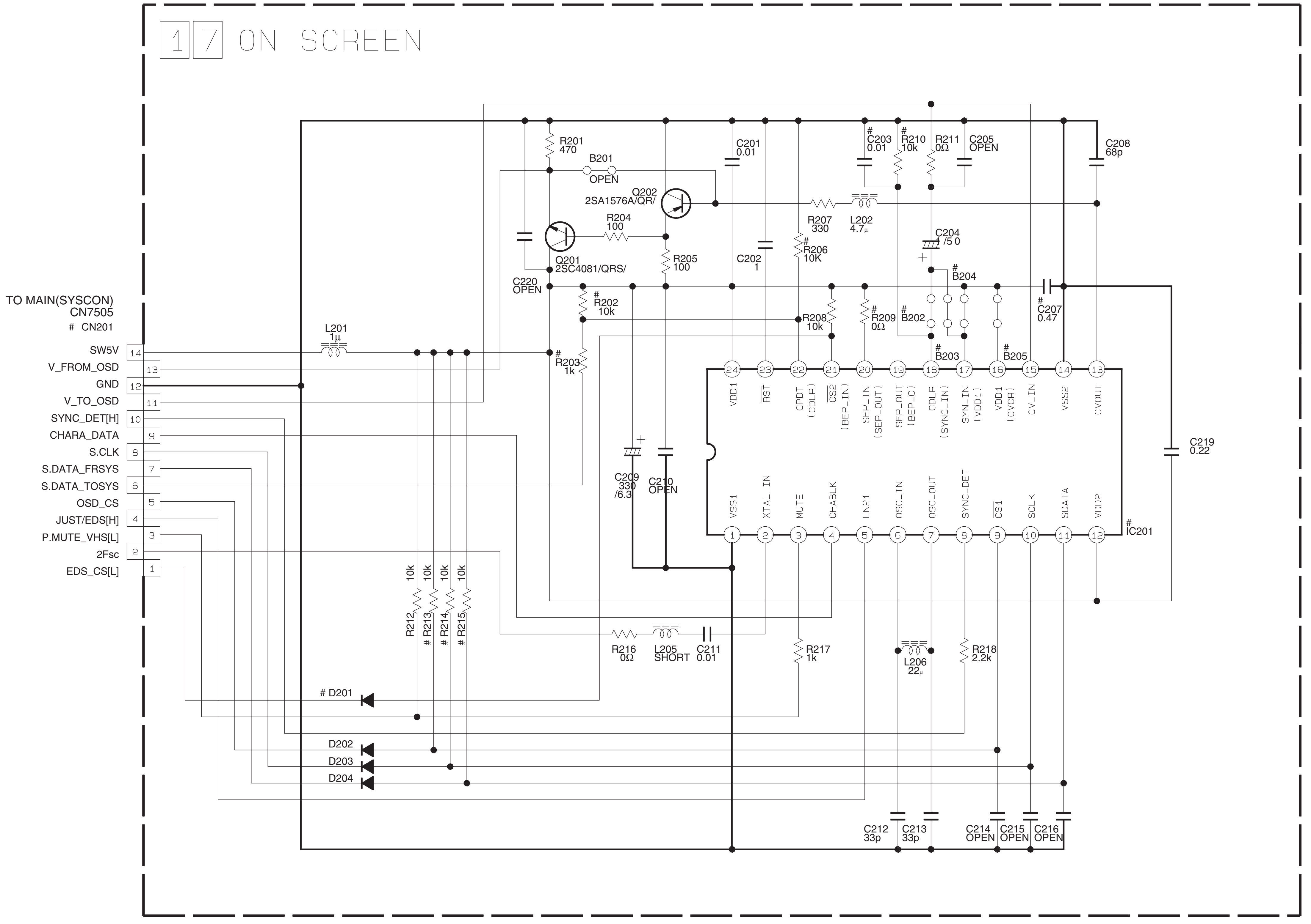
p20412001a_rev1

■ DEMOD(RF AUDIO AGC) SCHEMATIC DIAGRAM



p40053001a_rev0

■ ON SCREEN SCHEMATIC DIAGRAM



DIFFERENCE TABLE

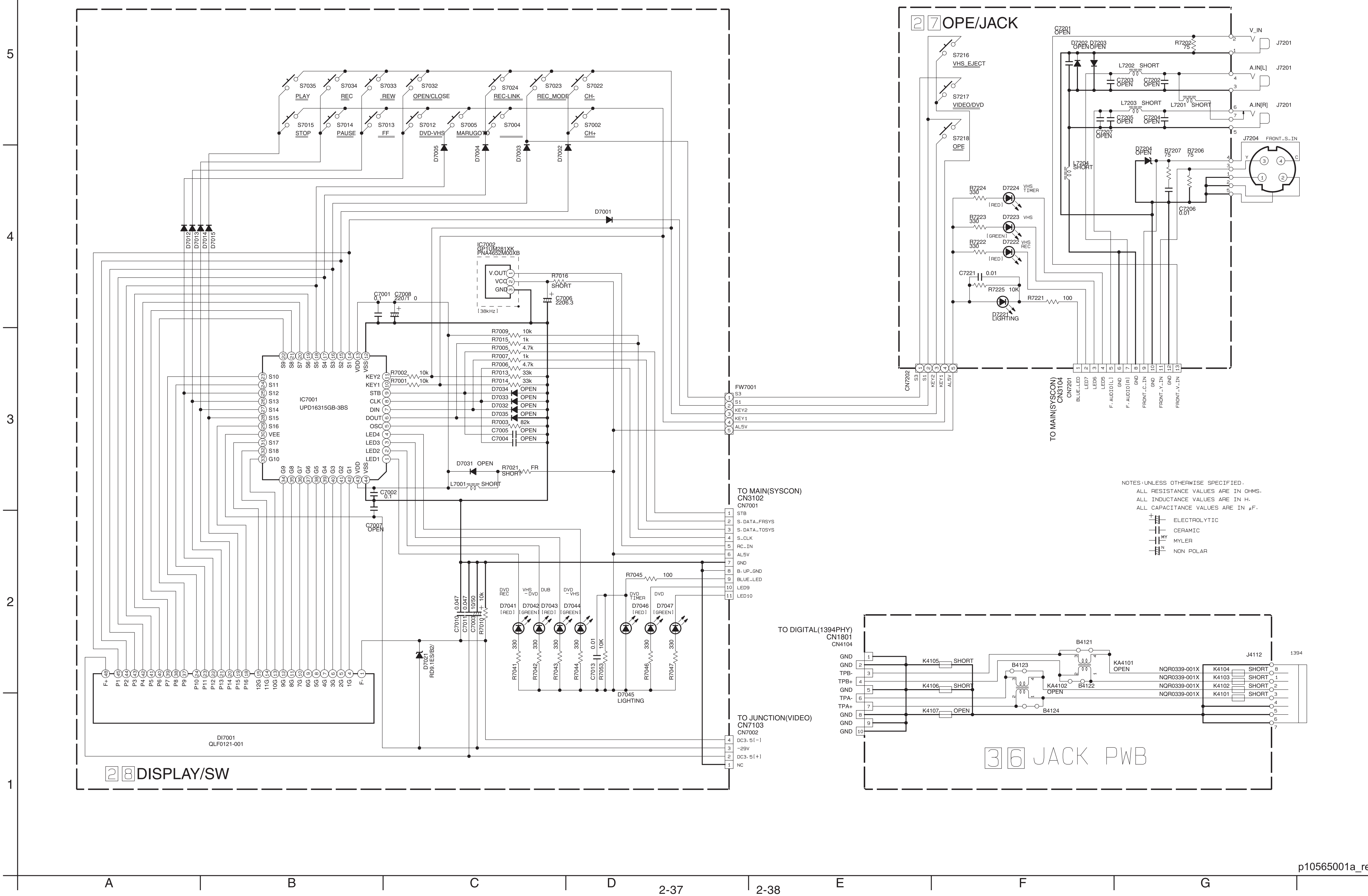
	IC201	D201	R202, R203 R209, R210	R206, R213 R214, R215	C203	C207	B202 B204	B203 B205	CN201
DOM	LC74789N	×	×	○	×	○	○	×	2-14
US	LC74785N	○	○	×	○	×	×	○	1-14

NOTES: UNLESS OTHERWISE SPECIFIED.
ALL RESISTANCE VALUES ARE IN OHMS.
ALL INDUCTANCE VALUES ARE IN H.
ALL CAPACITANCE VALUES ARE IN μF.

ELECTROLYTIC
CERAMIC
MYLER
NON POLAR

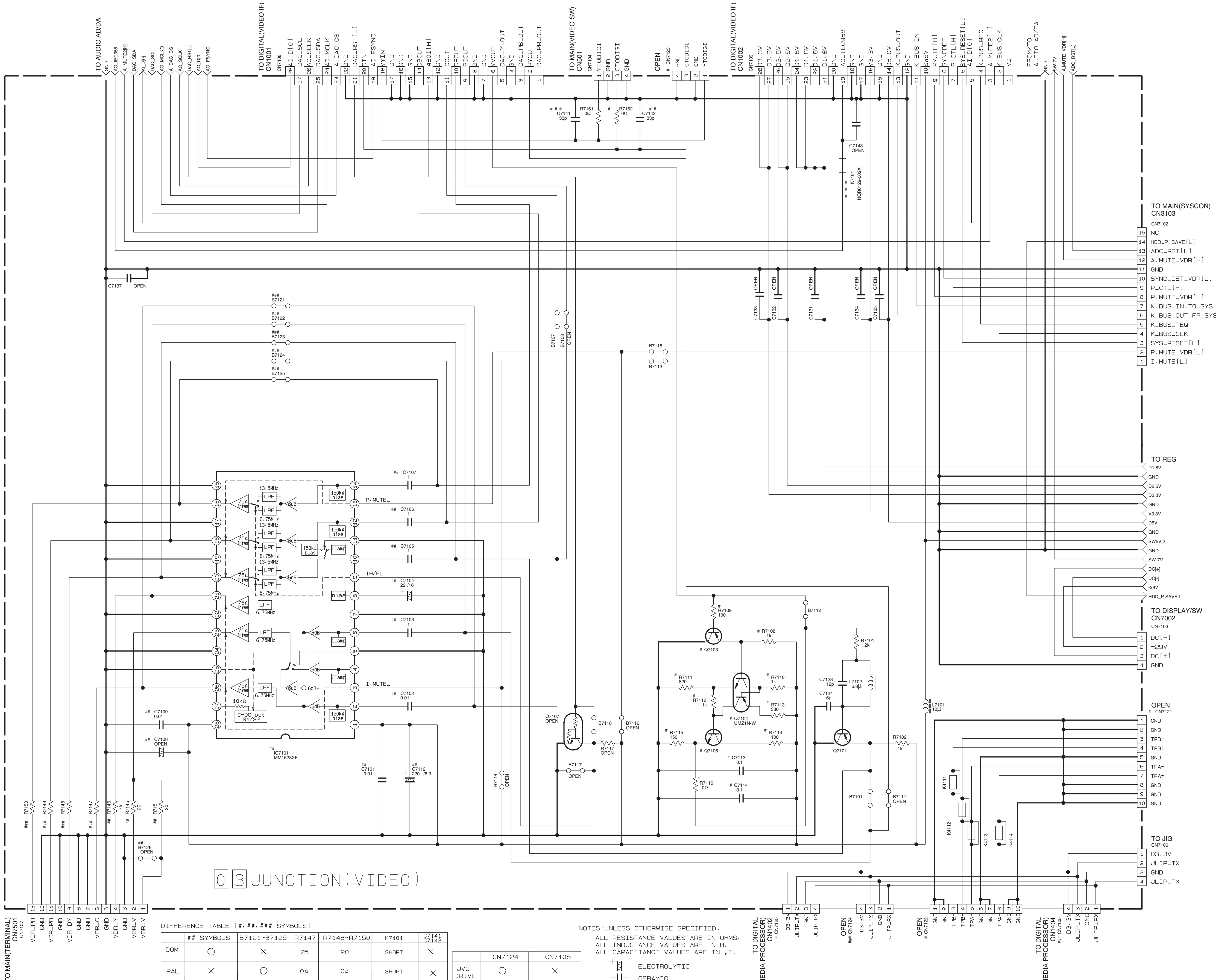
p30123001a_rev0

■ OPERATION JACK, SWITCH DISPLAY AND JACK SCHEMATIC DIAGRAM



p10565001a_rev0

■ VIDEO(JUNCTION) SCHEMATIC DIAGRAM



DIFFERENCE TABLE [#, ##, ### SYMBOLS]

	## SYMBOLS	B7121~B7125	R7147	R7148~R7150	K7101	C7141 C7142
DOM	○	×	75	20	SHORT	×
PAL	×	○	0Ω	0Ω	SHORT	×
US	○	×	75	20	NQR0129-002X	○

MARK ARE NOT MOUNTED

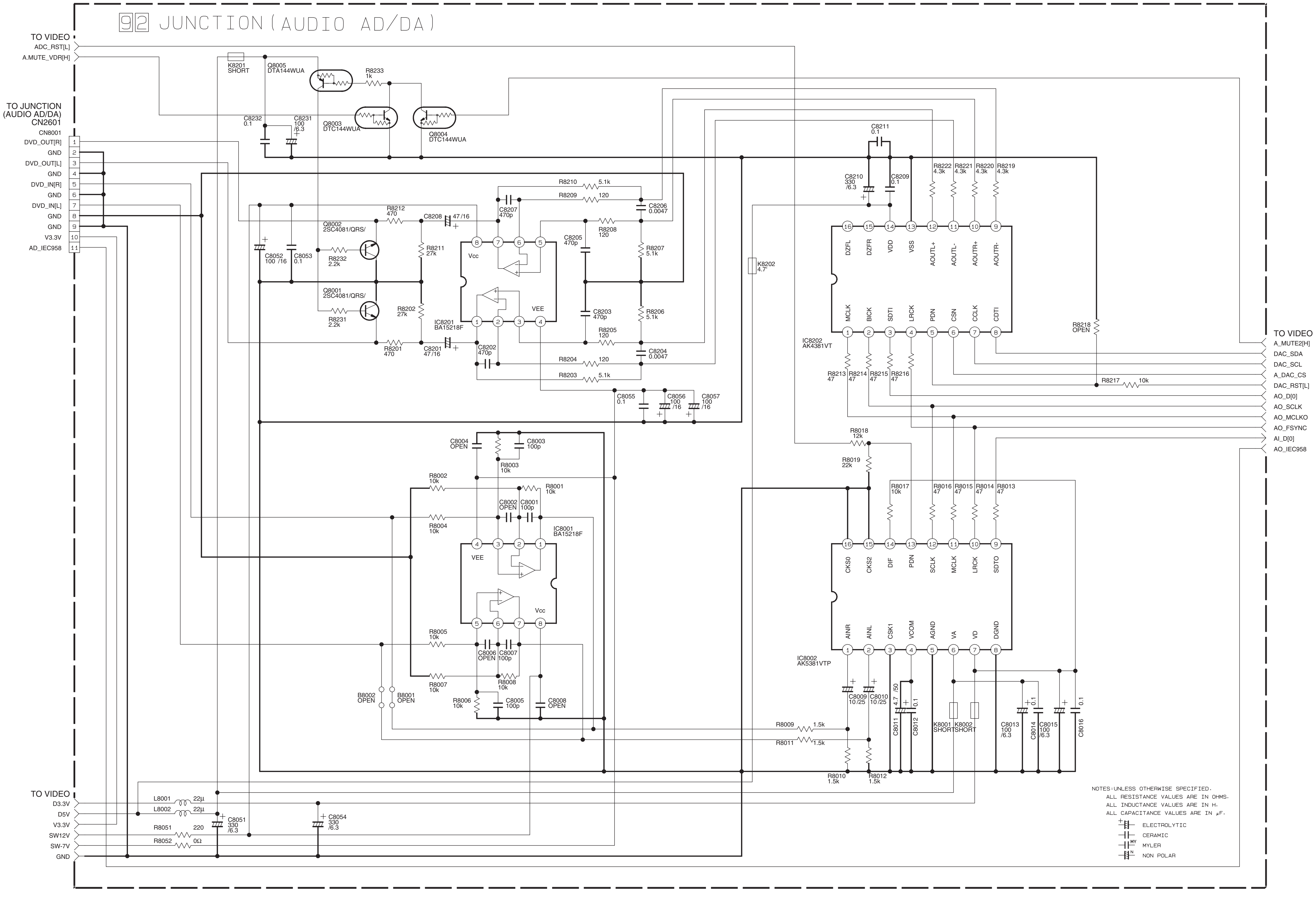
	CN7124	CN7105
JVC DRIVE	○	×
JR2 DRIVE	×	○

NOTES: UNLESS OTHERWISE SPECIFIED.
ALL RESISTANCE VALUES ARE IN OHMS.
ALL INDUCTANCE VALUES ARE IN H.
ALL CAPACITANCE VALUES ARE IN μF.

- ELECTROLYTIC
- CERAMIC
- MY MYLER
- N NON POLAR

p20420001a_rev0

■ JUNCTION(AUDIO AD/DA) SCHEMATIC DIAGRAM

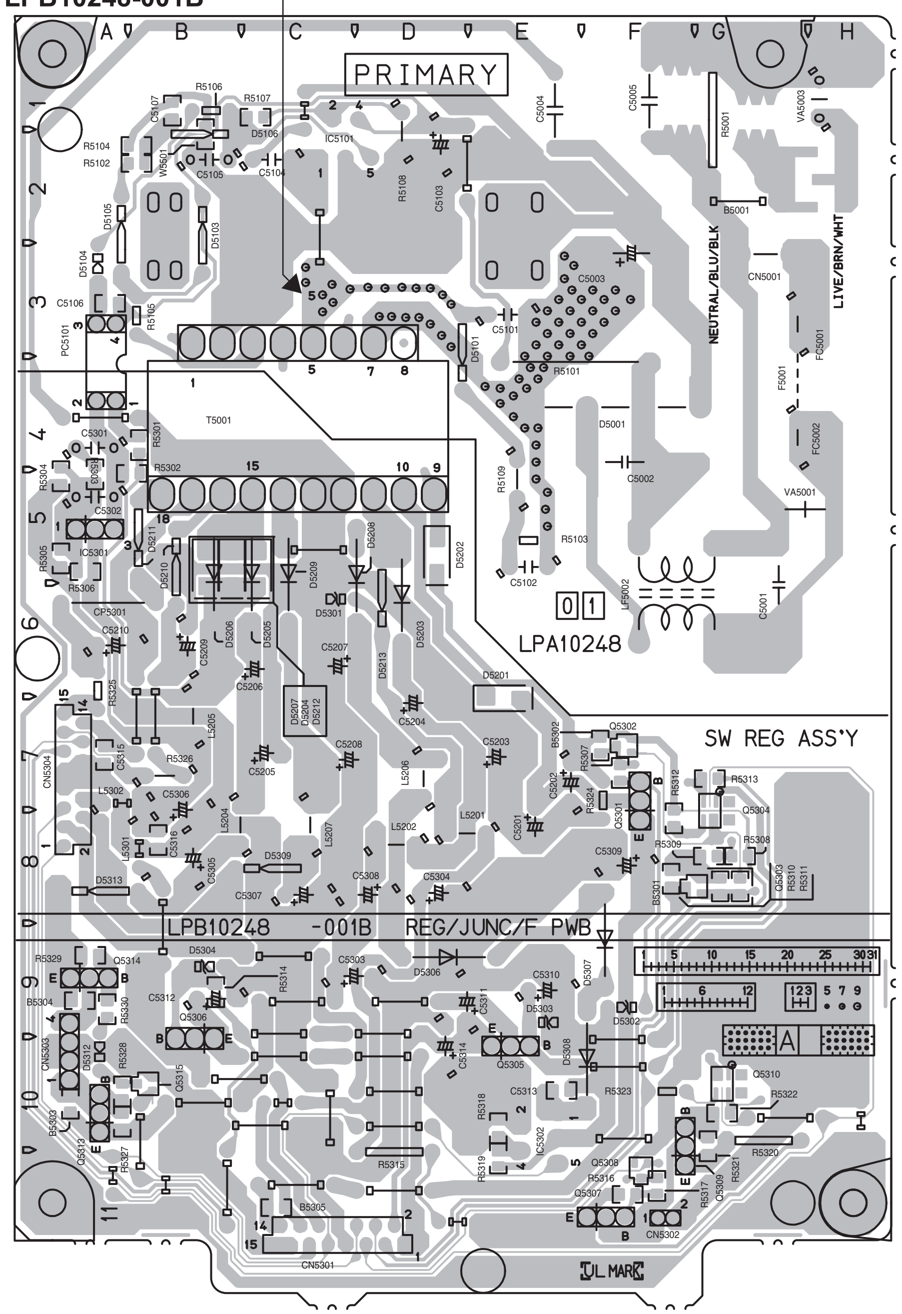


p20421001a_rev0

■ REGULATOR CIRCUIT BOARD

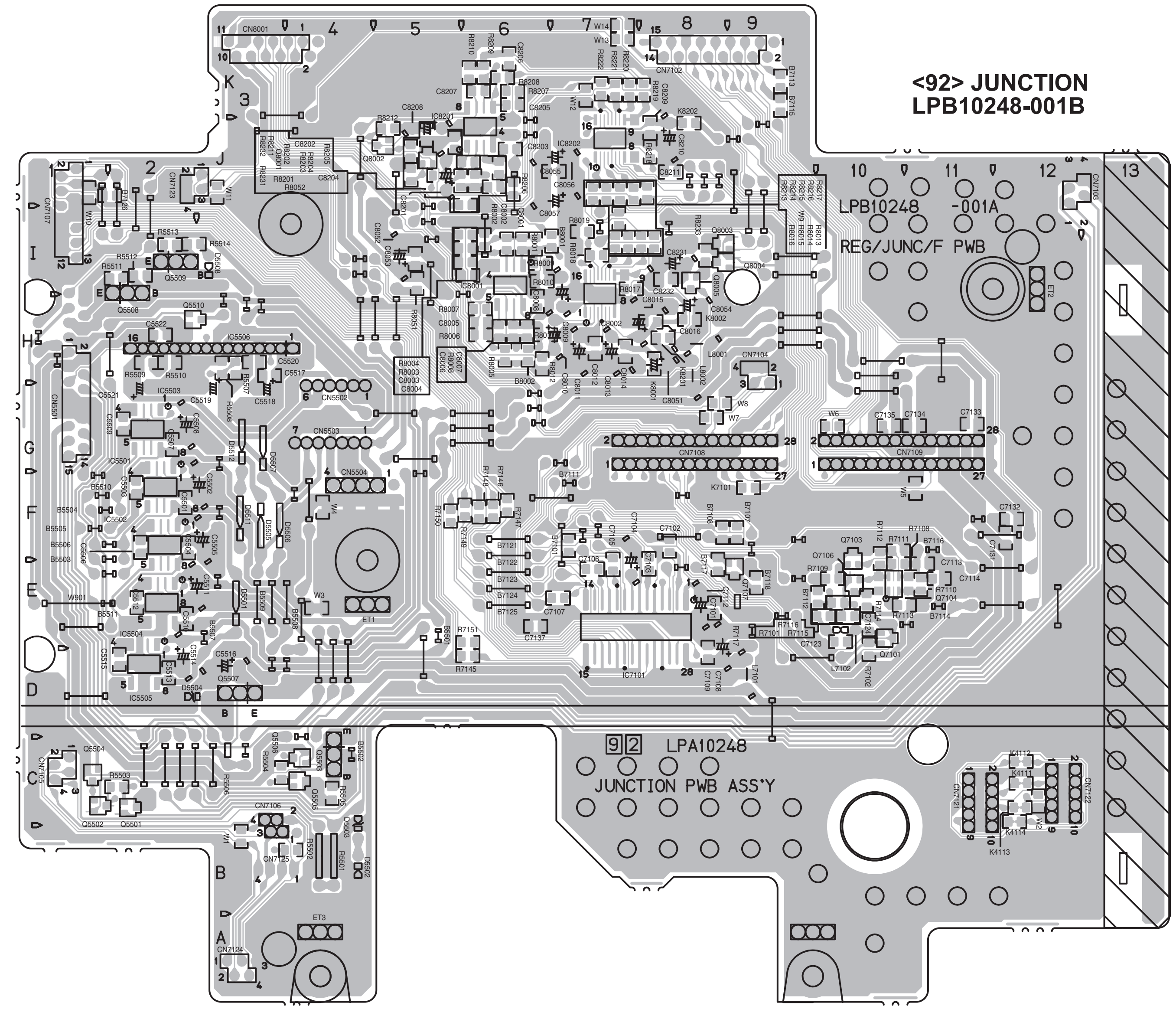
CAUTION :
FOR CONTINUED PROTECTION AGAINST FIRE HAZARD, REPLACE ONLY WITH SAME TYPE AND RATED FUSE(S).
ATTENTION :
REPLACER PAR DES FUSIBLE DE MEME TYPE.

<01> REGULATOR
LPB10248-001B



■ JUNCTION CIRCUIT BOARD

<92> JUNCTION
LPB10248-001B



COMPONENT PARTS LOCATION GUIDE <REGULATOR> LPB10248-001B

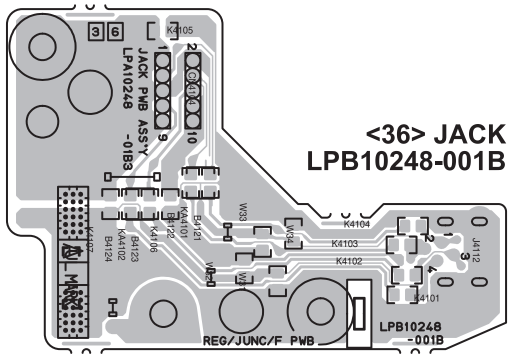
REF.NO.	LOCATION
CAPACITOR	
C5001	A D 5G
C5002	A D 4F
C5003	A D 3F
C5004	A D 1E
C5005	A D 1F
C5101	A D 3E
C5102	A D 5E
C5103	A D 1D
C5104	A D 2C
C5105	A D 2B
C5106	B C 3A
C5107	B C 1B
C5201	A D 7E
C5202	A D 7E
C5203	A D 7E
C5204	A D 6D
C5205	A D 7C
C5206	A D 6B
C5207	A D 6D
C5208	A D 7C
C5209	A D 6B
C5210	A D 6A
C5301	A D 4A
C5302	A D 5A
C5303	A D 9C
C5304	A D 8D
C5305	A D 8B
C5306	A D 7B
C5307	A D 8C
C5308	A D 8D
C5309	A D 8F
C5310	A D 9E
C5311	A D 9D
C5312	A D 9B
C5313	B C 10E
C5314	A D 10D
C5315	B C 7A
C5316	B C 8B
CONNECTOR	
CN5001	A D 3G
CN5301	A D 11D
CN5302	A D 11F
CN5303	A D 10A
CN5304	A D 8A
CP5301	A D 6B
DIODE	
D5001	A D 4E
D5101	A D 3D
D5103	A D 3B
D5104	A D 3A
D5105	A D 3A
D5106	A D 1B
D5201	B C 6E
D5202	B C 5D
D5203	A D 5D
D5204	B C 5B
D5205	A D 5C
D5206	A D 5B
D5207	B C 5B
D5208	A D 5D
D5209	A D 5C
D5210	A D 6B
D5211	A D 5B
D5212	B C 5C
D5213	A D 5D
D5301	A D 6C
D5302	A D 9F
D5303	A D 9E
D5304	A D 9B
D5306	A D 9D
D5307	A D 8F
D5308	A D 9F
D5309	A D 8C
D5312	A D 9A
D5313	A D 8B
IC	
IC5101	A D 2C
IC5301	A D 5A
IC5302	A D 10E
COIL	
L5201	A D 8D
L5202	A D 8D
L5204	A D 8B
L5205	A D 7B
L5206	A D 7D
L5207	A D 8C
L5301	A D 8B
L5302	A D 7A
TRANSISTOR	
Q5301	A D 8F
Q5302	B C 7F
Q5303	B C 8F
Q5304	B C 7G
Q5305	A D 10E
Q5306	A D 9B
Q5307	A D 11F
Q5308	B C 11F
Q5309	A D 11F
Q5310	B C 10G
Q5313	A D 10A
Q5314	A D 9A
Q5315	B C 10B
RESISTOR	
R5001	A D 1G
R5101	A D 3E
R5102	B C 2B
R5103	A D 5E
R5104	B C 2B
R5105	A D 3B
R5106	A D 1B
R5107	B C 1C
R5108	A D 1D
R5109	A D 5E
R5301	B C 4B
R5302	B C 4B
R5303	B C 4A
R5304	B C 4A
R5305	B C 5A
R5306	B C 5A
R5307	B C 7F
R5308	B C 8G
R5309	B C 8G
R5310	B C 8G
R5311	B C 8G
R5312	B C 8F
R5313	B C 7G
R5314	B C 9B
R5315	A D 10D
R5316	B C 11F
R5317	B C 11F
R5318	B C 10E
R5319	B C 11E
R5320	A D 10G
R5321	B C 10G
R5322	B C 10G
R5323	A D 10F
R5324	A D 8F
R5325	A D 6A
R5326	A D 7B
R5327	B C 10A
R5328	B C 10A
R5329	B C 9A
R5330	B C 9A
OTHER	
F5001	A D 4G
FC5001	A D 3G
FC5002	A D 4G
LF5002	A D 5F
PC5101	A D 4A
SG5001	B C 2H
T5001	A D 3B
VA5001	A D 5H
VA5003	A D 1H

COMPONENT PARTS LOCATION GUIDE <JUNCTION> LPB10248-001B

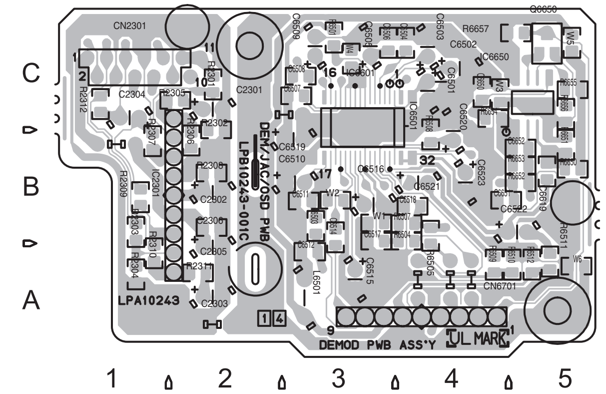
REF.NO.	LOCATION
CAPACITOR	
C5501	B C 2F
C5502	A D 3G
C5503	B C 2F
C5504	B C 2F
C5505	A D 3F
C5506	B C 2F
C5507	B C 2G
C5508	A D 2G
C5509	B C 2G
C5510	B C 2E
C5511	A D 3E
C5512	B C 2E
C5513	B C 2D
C5514	A D 2E
C5515	B C 2D
C5516	A D 3D
C5517	B C 3H
C5518	A D 3G
C5519	A D 3G
C5520	B C 3H
C5521	A D 2G
C5522	B C 2H
C7101	B C 8E
C7102	B C 8F
C7103	B C 8E
C7104	A D 7E
C7105	B C 7E
C7106	B C 7E
C7107	B C 7E
C7108	A D 8D
C7109	B C 8D
C7112	A D 8E
C7113	B C 11E
C7114	B C 11E
C7123	B C 10E
C7124	B C 10E
C7131	B C 12F
C7132	B C 12F
C7133	B C 11G
C7134	B C 11G
C7135	B C 10G
C7137	B C 6E
C8001	B C 6I
C8002	B C 6I
C8003	B C 6I
C8004	B C 6I
C8005	B C 6H
C8006	B C 6H
C8007	B C 6H
C8008	B C 6H
C8009	A D 7H
C8010	A D 7H
C8011	A D 7H
C8012	B C 7H
C8013	A D 7H
C8014	B C 7H
C8015	A D 8H
C8016	B C 8H
C8051	A D 8H
C8052	A D 5I
C8053	B C 5I
C8054	A D 8H
C8055	B C 7J
C8056	A D 7J
C8057	A D 7J
C8201	A D 5J
C8202	B C 6J
C8203	B C 6J
C8204	B C 6J
C8205	B C 6K
C8206	B C 6K
C8207	B C 6K
C8208	A D 5J
C8209	B C 8J
C8210	A D 8J
C8211	B C 8J
C8231	A D 8I
C8232	B C 8I
CONNECTOR	
CN4104	A D 6C
CN5501	A D 1G
CN5502	A D 4G
CN5503	A D 4G
CN5504	A D 5F
CN7102	A D 9K
CN7103	A D 12J
CN7104	A D 9H
CN7105	A D 1C
CN7106	A D 3B
CN7107	A D 1J
CN7108	A D 7G
CN7109	A D 10G
CN7121	A D 11C
CN7122	A D 12C
CN7123	A D 3J
CN7124	A D 3A
CN7125	A D 4B
CN8001	A D 4K
DIODE	
D5501	A D 3E
D5502	A D 4B
D5503	A D 4C
D5504	A D 2D
D5505	A D 3F
D5506	A D 3F
D5507	A D 3G
D5508	A D 3I
D5511	A D 3F
D5512	A D 3G
DIODE	
IC5501	B C 2F
IC5502	B C 2F
IC5503	B C 2G
IC5504	B C 2E
IC5505	B C 2D
IC5506	A D 4H
IC7101	B C 7E
IC8001	B C 6I
IC8002	B C 7I
IC8201	B C 6J
IC8202	B C 7J
COIL	
L7101	A D 9D
L7102	A D 10E
L8001	A D 8H
L8002	A D 8G
TRANSISTOR	
Q5501	B C 2C
Q5502	B C 1C
Q5503	A D 4C
Q5504	B C 1C
Q5505	B C 4C
Q5506	B C 4C
Q5507	A D 3D
Q5508	A D 2I
Q5509	A D 2I
Q5510	B C 2H
Q7101	B C 10E
Q7103	B C 10F
Q7104	B C 10E
Q7106	B C 10E
Q7107	B C 9E
Q8001	B C 5J
Q8002	B C 5J
Q8003	B C 8I
Q8004	B C 8I
Q8005	B C 8I
RESISTOR	
R5501	A D 4B
R5502	A D 4B
R5503	B C 2C
R5504	B C 3C
R5505	B C 4C
R5506	A D 3D
R5507	B C 3H
R5508	B C 3H
R5509	B C 2H
R5510	B C 2H
R5511	B C 2I
R5512	B C 2I
R5513	B C 2I
R5514	B C 2I
R7101	B C 10E
R7102	B C 10D
R7108	B C 10E
R7109	B C 10E
R7110	B C 11E
R7111	B C 10F
R7112	B C 10F
R7113	B C 11E
R7114	B C 10E
R7115	B C 10E
R7116	B C 10E
R7117	A D 9E
R7145	B C 6D
R7146	B C 6F
R7147	B C 6F
R7148	B C 6F
R7149	B C 6F
R7150	B C 5F
R7151	B C 6E
R8001	B C 6I
R8002	B C 6I
R8003	B C 6I
R8004	B C 6I
R8005	B C 6H
R8006	B C 6H
R8007	B C 6H
R8008	B C 6H
R8009	B C 6I
R8010	B C 6I
R8011	B C 6H
R8012	B C 6H
R8013	B C 8I
R8014	B C 8I
R8015	B C 7I
R8016	B C 7I
R8017	B C 7I
R8018	B C 7I
R8019	B C 7I
R8051	B C 5I
R8052	B C 6J
R8201	B C 5J
R8202	B C 5J
R8203	B C 5J
R8204	B C 6J
R8205	B C 6J
R8206	B C 6J
R8207	B C 6K
R8208	B C 6K
R8209	B C 6K
R8210	B C 6K
R8211	B C 5J
R8212	B C 5J
R8213	B C 7J
R8214	B C 7J
R8215	B C 7J
R8216	B C 7J
R8217	B C 8J
R8218	B C 8J
R8219	B C 8K
R8220	B C 7K
R8221	B C 7K
R8222	B C 7K
R8231	B C 5J
R8232	B C 5J
R8233	B C 8I
OTHER	
K4111	B C 12C
K4112	B C 12C
K4113	B C 12C
K4114	B C 12C
K7101	B C 9F
K8001	B C 8H
K8002	B C 8H
K8201	B C 8H
K8202	B C 8J

■ JACK, DEMOD, OSD, OPERATION JACK, SWITCH DISPLAY AND JACK CIRCUIT BOARDS

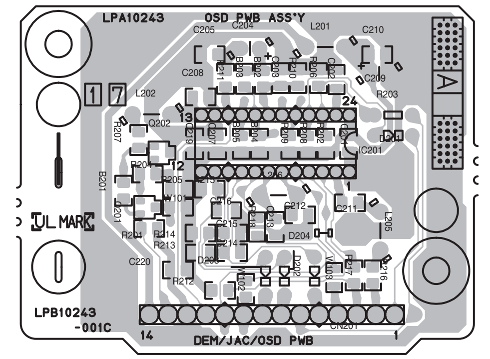
<36> JACK
LPB10248-001B



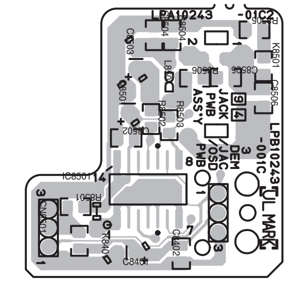
<14> DEMOD
LPB10243-001C



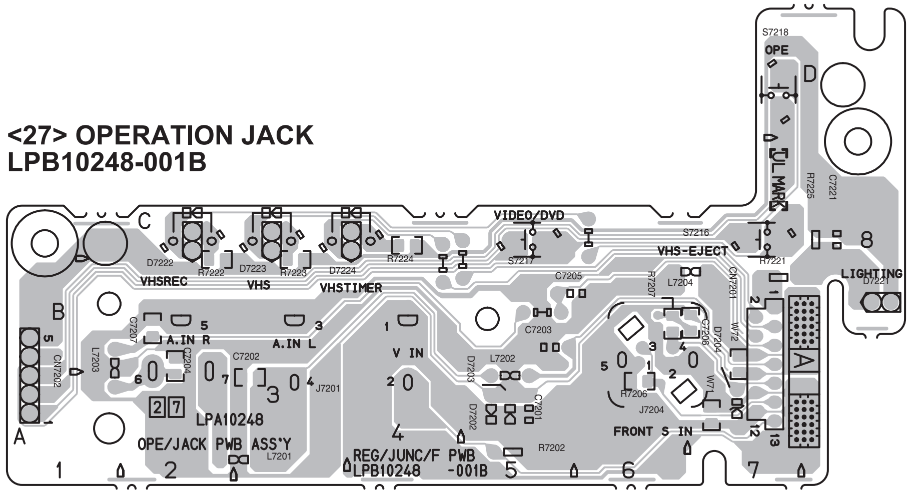
<17> OSD
LPB10243-001C



<94> JACK
LPB10243-001C



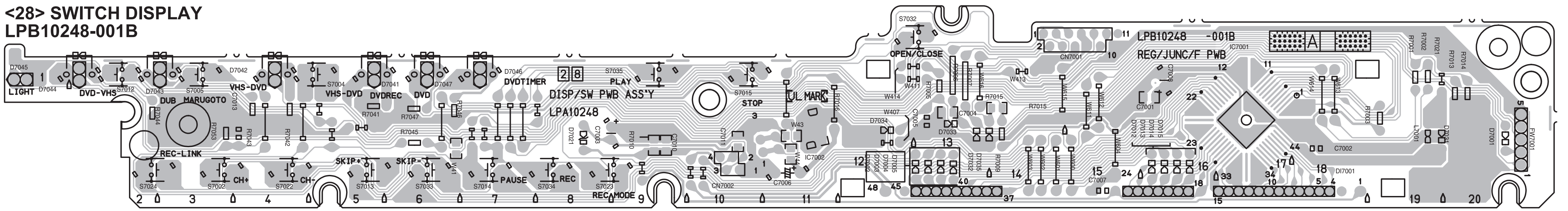
<27> OPERATION JACK
LPB10248-001B



COMPONENT PARTS LOCATION GUIDE <DEMOD> LPB10243-001C

REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION
CAPACITOR		C6508	B C 3C	C6523	A D 4B	IC6650	B C 5C	R2312	B C 1C	R6653	B C 5B
C2301	A D 2C	C6509	A D 3C	C6619	B C 5B			R6501	B C 3C	R6654	B C 4C
C2302	A D 2B	C6510	A D 3B	C6650	B C 4C	**RESISTOR**		R6503	B C 3B	R6655	B C 5C
C2303	A D 2A	C6511	B C 3B	C6651	B C 4B	R2301	B C 2C	R6504	B C 4B	R6656	B C 5C
C2304	A D 1C	C6512	B C 3A	C6652	B C 5B	R2302	B C 2B	R6505	B C 4B	R6657	B C 5C
C2305	A D 2A	C6514	B C 3B			R2303	B C 1B	R6507	B C 4B		
C2306	B C 2B	C6515	A D 3A	CONNECTOR		R2304	B C 1A	R6508	B C 4B	**COIL**	
C6501	A D 4C	C6516	A D 3B	CN2301	A D 1C	R2305	B C 2C	R6509	B C 4A	L6501	A D 3A
C6502	A D 4C	C6517	B C 3B	CN6701	A D 4A	R2306	B C 2B	R6510	B C 5A		
C6503	A D 4C	C6518	B C 4B			R2307	B C 1B	R6511	B C 5A	**TRANSISTOR**	
C6504	B C 4C	C6519	A D 3B	**IC**		R2308	B C 2B	R6512	B C 5A	Q6650	B C 5C
C6505	A D 3C	C6520	A D 4B	IC2301	A D 2C	R2309	B C 1B	R6650	B C 5B		
C6506	B C 3C	C6521	A D 4B	IC6501	B C 3C	R2310	B C 1A	R6651	B C 5B	**OTHER**	
C6507	B C 3C	C6522	A D 4B	IC6601	B C 3C	R2311	B C 2A	R6652	B C 5B	PC044	B C 12P

<28> SWITCH DISPLAY
LPB10248-001B



COMPONENT PARTS LOCATION GUIDE <OPERATION JACK> LPB10248-001B

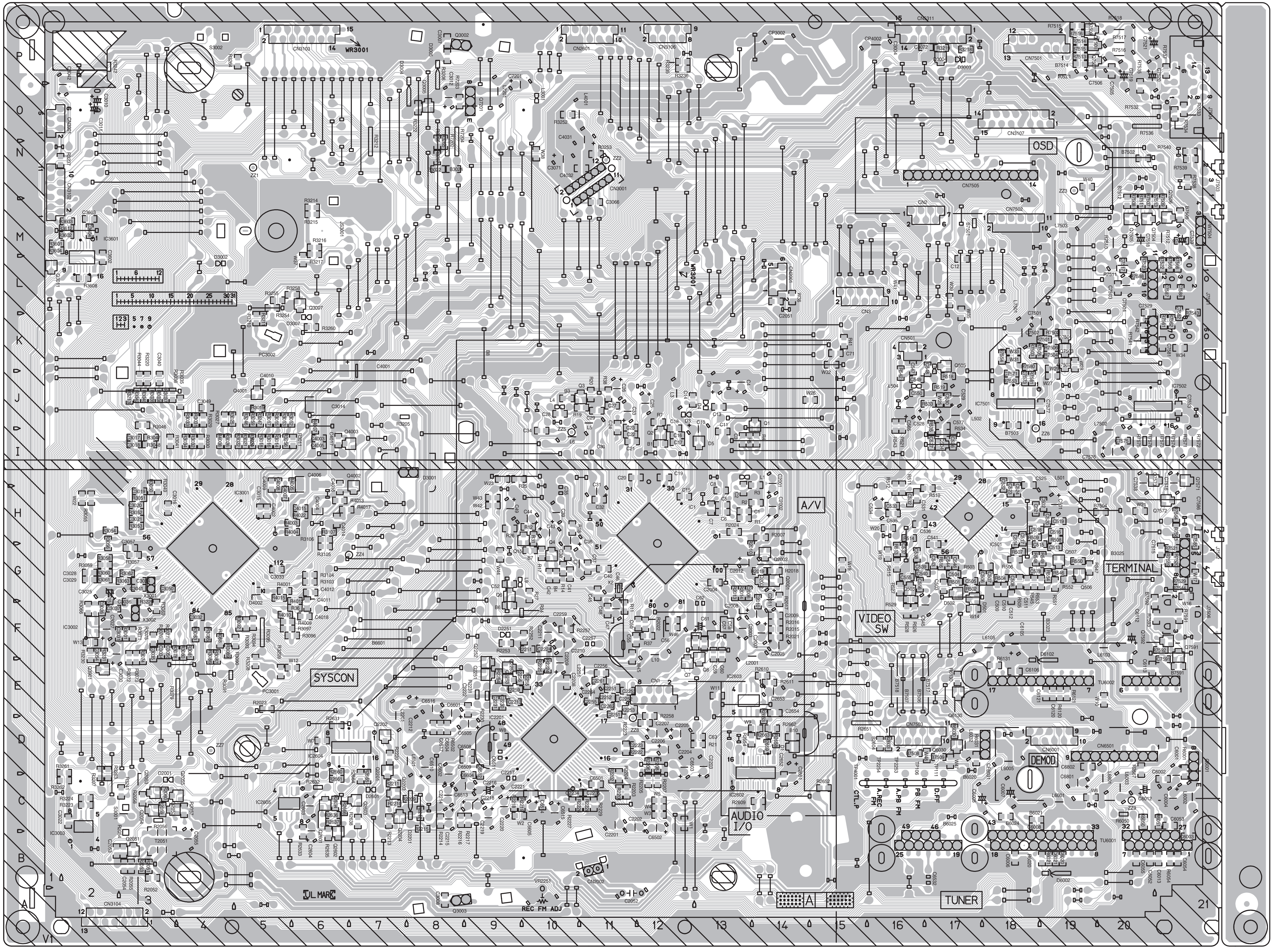
REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION
CAPACITOR				D7221	A D 8B	L7204	A D 7B	R7224	B C 4C
C7201	A D 5A	**CONNECTOR**		D7222	A D 2C			R7225	A D 8C
C7202	B C 3A	CN7201	A D 7B	D7223	A D 3C	**REGISTOR**			
C7203	A D 5B	CN7202	A D 1A	D7224	A D 4C	R7202	A D 5A	**OTHER**	
C7204	B C 2B					R7206	B C 6A	J7201	A D 3B
C7205	A D 5B	**DIODE**		**COIL**		R7207	B C 6B	J7204	A D 6B
C7206	B C 7B	D7202	A D 5A	L7201	A D 3A	R7221	A D 7B	S7216	A D 7C
C7207	B C 2B	D7203	A D 5A	L7202	A D 5A	R7222	B C 2B	S7217	A D 5C
C7221	A D 8C	D7204	A D 7A	L7203	A D 1B	R7223	B C 3B	S7218	A D 7D

COMPONENT PARTS LOCATION GUIDE <SWITCH DISPLAY> LPB10248-001B

REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION
CAPACITOR		CONNECTOR		D7015	A D 16A	D7047	A D 6B	R7005	A D 13B	R7044	A D 2B	S7013	A D 5A
C7001	B C 16B	CN7001	A D 14C	D7021	A D 8B			R7006	A D 13B	R7045	A D 6A	S7014	A D 7A
C7002	A D 18A	CN7002	A D 10A	D7031	A D 20B	IC		R7007	A D 13B	R7046	A D 6B	S7015	A D 10B
C7003	A D 9B			D7032	A D 13A	IC7001	B C 17B	R7009	A D 14B	R7047	A D 6B	S7022	A D 4A
C7004	B C 13B	DIODE		D7033	A D 13B	IC7002	A D 11B	R7010	B C 9A	R7053	A D 3A	S7023	A D 9A
C7005	A D 13B	D7001	A D 20B	D7034	A D 12B			R7013	A D 20B			S7024	A D 2A
C7006	A D 11A	D7002	A D 13A	D7035	A D 14A	COIL		R7014	A D 20B	OTHER		S7032	A D 13C
C7007	A D 15A	D7003	A D 13A	D7041	A D 5B	L7001	A D 19A	R7015	B C 14B	DI7001	A D 15B	S7033	A D 6A
C7008	A D 16B	D7004	A D 13A	D7042	A D 4B			R7016	A D 11B	FW7001	A D 21A	S7034	A D 8A
C7010	B C 9A	D7005	A D 13A	D7043	A D 3B	REGISTOR		R7021	A D 20B	S7002	A D 3A	S7035	A D 9B
C7011	B C 10A	D7012	A D 16A	D7044	A D 1B	R7001	A D 19B	R7041	A D 6B	S7004	A D 5B		
C7013	A D 4A	D7013	A D 16A	D7045	A D 1B	R7002	A D 19B	R7042	A D 4B	S7005	A D 3B		
		D7014	A D 16A	D7046	A D 7B	R7003	A D 19B	R7043	A D 4B	S7012	A D 2B		

■ MAIN CIRCUIT BOARD

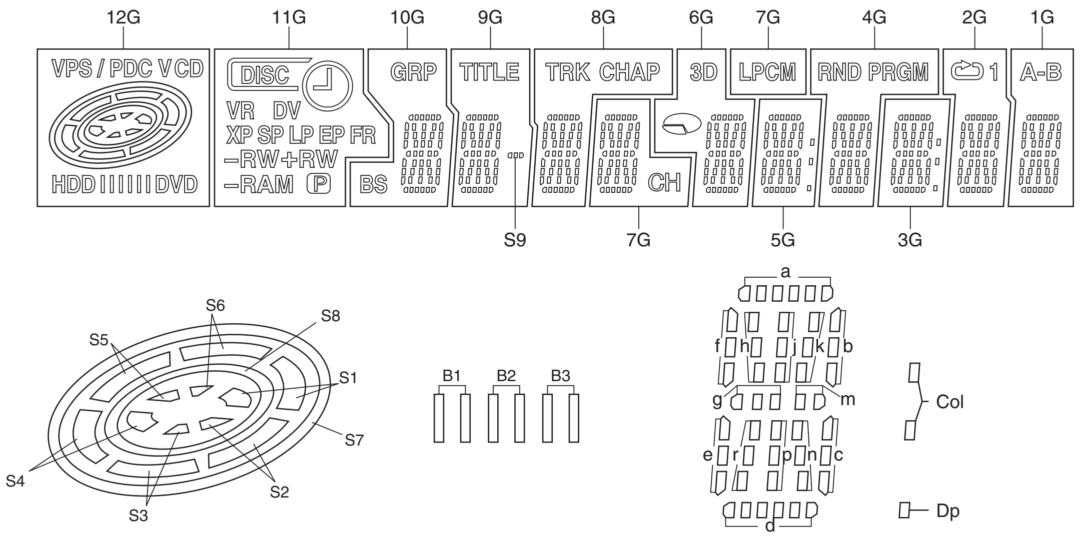
<03> MAIN
LPB10238-001B



COMPONENT PARTS LOCATION GUIDE <MAIN> LPB10238-001B

REF.NO.	LOCATION
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C2	B C 13H
C3	B C 13I
C4	A D 13J
C5	B C 13H
C6	B C 13H
C7	B C 13H
C8	B C 13H
C9	A D 13J
C10	A D 12I
C11	B C 13I
C12	B C 17L
C13	B C 13J
C14	B C 12J
C15	B C 12H
C16	B C 12I
C17	B C 12I
C18	B C 12J
C19	B C 12I
C20	B C 11I
C21	B C 11I
C22	B C 11I
C23	B C 11J
C24	B C 11J
C25	A D 12J
C26	A D 11J
C27	B C 11J
C28	B C 10J
C29	B C 11J
C30	A D 11I
C31	A D 11H
C32	B C 11H
C33	A D 11J
C34	B C 10I
C35	A D 10H
C36	A D 10H
C37	B C 11G
C38	B C 10G
C39	A D 10H
C40	B C 11G
C41	B C 10G
C42	B C 10G
C43	A D 10H
C44	A D 10H
C45	B C 11G
C46	B C 11G
C47	A D 11F
C48	B C 11F
C49	A D 9H
C50	B C 12F
C52	B C 9G
C55	B C 11F
C56	B C 12F
C57	B C 13F
C58	B C 13F
C59	B C 13F
C60	B C 13F
C61	A D 12F
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C63	B C 13D
C71	B C 15K
C501	A D 19H
C502	B C 19H
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C2007	A D 14F
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C2009	B C 14F
C2010	B C 14F
C2011	A D 14G
C2012	A D 13G
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C2217	A D 9C
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C2256	B C 11E
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C3011	A D 2O
C3012	A D 8O
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C3016	B C 3H
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C3035	B C 3F
C3036	B C 3F
C3037	B C 2F
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C3041	B C 3G
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C3050	B C 3G
C3054	B C 2F
C3056	B C 3F
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C3604	B C 2M
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C4003	B C 6I
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C4007	B C 5H
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C4009	B C 5I
C4010	B C 5J
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C4016	B C 6H
C4017	B C 6I
C4018	B C 6F
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C7591	B C 21E
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CN3	A D 15L
CN501	A D 16K
CN2001	A D 14L
CN2002	A D 11B
CN2601	A D 10P
CN3001	A D 11N
CN3102	A D 1M
CN3103	A D 5P
CN3104	A D 3A
CN3106	A D 12P
CN3107	A D 19O
CN3901	A D 1O
CN5311	A D 17P
CN6001	A D 18D
CN6501	A D 20D
CN7501	A D 19P
CN7502	A D 18M
CN7503	A D 16D
CN7505	A D 16N
DIODE	
D1	B C 14D
D3	A D 13J
D4	A D 13J
D5	B C 13I
D501	B C 17G
D502	B C 17G
D2001	A D 4C
D2201	A D 8C
D2251	A D 9F
D2601	A D 7C
D3001	A D 8I
D3002	A D 4L
D3003	A D 17P
D3004	A D 8O
D3005	A D 8O
D3007	A D 6K
D4002	B C 5G
D6002	A D 19B
D6102	A D 19E
IC	
IC1	B C 12H
IC501	B C 17H
IC2201	B C 10D
IC2602	B C 14D
IC2603	B C 13E
IC2604	B C 7D
IC2605	B C 5C
IC3001	B C 4G
IC3002	B C 2F
IC3003	B C 2C
IC3601	B C 2L
IC7501	B C 18J
IC7502	B C 20J
COIL	
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L3	A D 12J
L4	A D 10J
L5	A D 11J
L6	A D 10I
L7	A D 11G
L9	A D 9G
L10	A D 12F
L501	A D 19H
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L6801	A D 20C
L7201	A D 9O
L7501	A D 18K
L7502	A D 20I
L7503	A D 19M
L7504	A D 19P
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Q3	B C 11J
Q4	B C 10G
Q6	B C 9G
Q7	B C 12E
Q8	B C 13E
Q15	B C 10H
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Q504	B C 17I
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Q4002	B C 7H
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Q7573	B C 21I
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R7	B C 12J
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R41	B C 15K
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R3222	B C 8O
R3223	B C 2C
R3224	B C 2C
R3229	B C 3F
R3230	B C 2F
R3231	B C 2F
R3235	B C 12P
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R3241	B C 3C
R3242	A D 2P
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R3247	B C 5J
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R3253	B C 11N
R3254	B C 5L
R3255	B C 5L
R3256	B C 5I
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R3266	B C 8N
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R3602	B C 2M
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R3604	B C 1M
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R4003	B C 6H
R4004	B C 6H
R4005	B C 6I
R4007	B C 6J
R4008	B C 4I
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R6121	B C 19E
R6130	B C 17E
R6131	B C 18E
R6502	B C 8D
R7202	A D 8O
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R7506	B C 19K
R7507	B C 20M
R7508	B C 20M
R7509	B C 21M
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R7511	A D 20L
R7512	A D 21M
R7513	B C 19P
R7514	B C 19P
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R7516	A D 20P
R7517	A D 20P
R7518	A D 20P
R7519	B C 21G
R7520	B C 21G
R7521	B C 21G
R7522	B C 21L
R7523	B C 20L
R7528	B C 21M
R7529	B C 21G
R7532	A D 20O
R7533	B C 21O
R7534	B C 21O
R7535	B C 20O
R7536	A D 20O
R7537	B C 21P
R7538	B C 21N
R7539	B C 21N
R7540	B C 21N
R7541	B C 20K
R7542	B C 20K
R7543	B C 21L
R7544	B C 21G
R7553	B C 18J
R7554	B C 18K
R7561	B C 21K
R7562	B C 21K
R7563	B C 21H
R7564	B C 21H
R7565	B C 21L
R7566	B C 21L
R7571	A D 21I
R7572	A D 21I
R7573	A D 21I
R7574	A D 21I
R7575	A D 20I
R7576	A D 20I
R7580	B C 18K
R7581	B C 18J
R7588	B C 20L
R7591	B C 21F
R7592	B C 21F
R7593	B C 21F
OTHER	
CP3002	A D 14P
CP4002	A D 15P
FW7504	A D 21M
J7501	A D 22L
J7502	A D 22G
J7503	A D 22N
J7504	A D 22O
J7506	A D 22F
JS3001	A D 6M
K2251	B C 11E
K2252	B C 11E
K2253	B C 11E
K6050	B C 20C
PC3001	A D 5E
PC3002	A D 5K
S3001	A D 3C
S3002	A D 4P
T2051	A D 3B
TP106	A D 17C
TP111	A D 17C
TP2253	A D 16C
TP2254	A D 16C
TP3901	B C 3I
TP3902	B C 3H
TP3903	B C 3G
TP3904	B C 3G
TP3905	B C 2F
TP3906	B C 2H
TP3907	B C 3G
TP3908	B C 3G
TP3910	B C 6G
TP3911	B C 4I
TP4001	A D 16C
TU6001	A D 21B
TU6002	A D 21E
VR2251	A D 10A
X2	A D 11G
X3001	A D 3G
X3002	A D 3F

■ FDP GRID ASSIGNMENT AND ANODE CONNECTION



	12G	11G	10G	9G	8G	7G	6G	5G	4G	3G	2G	1G
P1	VPS/PDC	DISC	GRP	TITLE	TRK	LPCM	3D	col	RND	col	[symbol]	A-
P2	V(CD)	[symbol]	BS	S9	CHAP	CH	[symbol]	Dp	PRGM	Dp	1	B
P3	(V)CD	VR	a	a	a	a	a	a	a	a	a	a
P4	S1	DV	h	h	h	h	h	h	h	h	h	h
P5	S2	XP	j	j	j	j	j	j	j	j	j	j
P6	S3	SP	k	k	k	k	k	k	k	k	k	k
P7	S4	LP	b	b	b	b	b	b	b	b	b	b
P8	S5	EP	f	f	f	f	f	f	f	f	f	f
P9	S6	FR	m	m	m	m	m	m	m	m	m	m
P10	S7	-R	g	g	g	g	g	g	g	g	g	g
P11	S8	(-R)W	c	c	c	c	c	c	c	c	c	c
P12	HDD	+R	e	e	e	e	e	e	e	e	e	e
P13	B1	(+R)W	r	r	r	r	r	r	r	r	r	r
P14	B2	-RAM	p	p	p	p	p	p	p	p	p	p
P15	B3	(P)	n	n	n	n	n	n	n	n	n	n
P16	DVD	-	d	d	d	d	d	d	d	d	d	d

■ VOLTAGE CHARTS

<SW.REG>

MODE PIN NO.	REC	PLAY
IC5101		
1	85.2	85.6
2	6.3	6.7
3	6.5	6.6
4	16.2	16.6
5	7.5	7.8
IC5301		
1	2.4	2.4
2	0.0	0.0
3	4.8	4.7
IC5302		
1	2.5	2.5
2	2.0	2.0
3	0.0	0.0
4	1.2	1.2
5	4.9	4.9
Q5304		
1(E)	0.0	0.0
2(B)	4.9	4.9
3(C)	29.3	29.2
4(E)	29.3	29.2
5(B)	0.0	0.0
6(C)	0.0	0.0
Q5305		
E	10.7	10.8
C	12.0	12.0
B	11.3	11.3
Q5306		
E	5.0	5.1
C	5.8	5.8
B	5.7	5.7
Q5307		
E	11.6	11.6
C	11.6	11.6
B	10.9	10.9
Q5308		
E	0.0	0.0
C	0.0	0.0
B	2.6	2.6
Q5313		
E	13.2	13.1
C	13.1	13.1
B	12.4	12.4
Q5314		
E	5.2	5.2
C	5.2	5.2
B	4.5	4.4
Q5315		
E	0.0	0.0
C	0.0	0.0
B	4.9	4.9
CN5301		
1	5.0	5.0
2	10.7	10.7
3	32.6	32.4
4	54.1	53.9
5	2.6	2.6
6	-3.8	-4.1
7	0.0	0.0
8	0.0	0.0
9	4.9	4.9
10	5.8	5.8
11	4.9	4.9
12	12.0	12.0
13	0.0	0.0
14	12.0	12.0
15	0.0	0.0
CN5302		
1	11.6	11.6
2	0.0	0.0
CN5303		
1	13.1	13.1
2	0.0	0.0
3	0.0	0.0
4	5.2	5.2
CN5304		
1	4.9	4.9
2	2.0	2.0
3	2.0	2.0
4	3.5	3.5
5	4.9	4.9
6	5.8	5.8
7	0.0	0.0
8	0.0	0.0
9	0.0	0.0
10	0.0	0.0
11	10.8	10.8
12	-3.8	-3.9
13	-30.2	-30.2
14	-21.3	-21.2
15	-16.8	-16.8

<MAIN>

MODE PIN NO.	REC	PLAY
IC1		
1	0.0	0.0
2	0.0	0.0
3	0.0	0.0
4	4.3	4.3
5	2.0	2.1
6	2.5	2.5
7	2.8	2.8
8	1.8	1.4
9	1.8	1.3
10	2.4	2.0
11	2.6	3.0
12	1.5	0.6
13	0.0	0.0
14	2.7	2.4
15	2.8	2.8
16	0.0	0.0
17	2.7	2.8
18	1.9	1.9
19	1.2	2.8
20	0.2	0.0
21	2.8	2.7
22	4.9	5.0
23	0.0	0.0
24	0.0	0.0
25	0.0	0.0
26	3.0	2.8
27	0.0	0.0
28	0.0	0.0
29	2.4	2.3
30	2.8	2.8
31	0.3	0.2
32	2.7	2.4
33	2.0	2.0
34	1.7	1.8
35	3.0	3.0
36	2.3	2.3
37	3.0	3.0
38	2.1	-
39	1.2	1.4
40	2.1	0.0
41	1.1	2.8
42	2.0	0.0
43	0.0	2.0
44	0.0	0.0
45	3.2	3.2
46	3.2	3.2
47	5.0	4.9
48	0.0	0.0
49	-	0.0
50	5.0	5.0
51	2.0	1.9
52	5.0	4.9
53	2.6	2.5
54	0.0	0.0
55	2.0	2.0
56	0.0	0.0
57	2.1	2.1
58	2.3	2.2
59	4.9	4.9
60	4.9	4.9
61	0.0	0.0
62	2.3	0.0
63	2.2	2.2
64	2.7	2.7
65	2.2	2.2
66	2.7	2.5
67	0.0	0.2
68	1.2	1.2
69	1.9	1.9
70	2.7	1.1
71	0.0	0.0
72	4.9	4.9
73	4.8	4.8
74	4.8	4.8
75	2.7	2.7
76	2.2	2.1
77	2.8	2.8
78	0.0	0.0
79	0.5	2.5
80	0.0	2.5
81	0.0	0.0
82	0.0	0.0
83	0.0	2.0
84	4.7	5.0
85	2.3	2.3
86	2.4	2.3
87	2.3	2.2
88	0.0	0.0
89	0.0	0.0
90	0.0	0.0
91	0.0	0.0
92	5.0	5.0
93	0.0	0.0
94	0.0	2.5
95	2.5	2.5
96	2.5	2.5

MODE PIN NO.	REC	PLAY
97	0.0	0.0
98	2.2	2.5
99	0.0	0.0
100	2.5	2.5
IC501		
1	2.8	2.7
2	0.1	0.2
3	2.1	2.1
4	5.0	5.0
5	2.8	2.8
6	0.2	0.2
7	2.1	2.1
8	0.0	0.0
9	0.0	0.0
10	0.1	0.0
11	2.1	2.0
12	2.8	2.8
13	0.0	0.0
14	2.7	2.7
15	1.5	1.4
16	2.7	2.7
17	2.4	2.4
18	0.0	0.0
19	1.5	1.5
20	0.0	0.0
21	2.6	2.6
22	2.7	2.6
23	0.0	2.9
24	0.0	2.7
25	2.8	2.8
26	4.9	5.0
27	0.1	2.8
28	2.1	2.2
29	0.0	2.3
30	0.0	0.1
31	3.0	3.0
32	0.0	0.0
33	2.8	2.8
34	0.4	0.4
35	2.8	2.8
36	3.1	3.0
37	0.0	0.0
38	3.8	3.7
39	4.2	4.2
40	2.8	2.7
41	2.6	2.6
42	2.8	2.8
43	3.0	3.0
44	1.6	1.6
45	2.5	2.6
46	0.0	5.0
47	0.0	0.6
48	2.8	2.2
49	0.0	0.0
50	0.0	0.0
51	2.9	0.0
52	0.0	0.0
53	3.2	3.2
54	0.0	2.8
55	1.9	1.8
56	0.0	2.5
IC2201		
1	2.4	2.4
2	0.0	0.0
3	2.4	2.4
4	0.0	0.0
5	2.3	2.4
6	2.5	2.4
7	2.0	2.0
8	0.1	0.4
9	0.0	0.0
10	0.0	0.0
11	0.0	0.0
12	2.0	2.0
13	2.5	2.5
14	0.0	0.0
15	0.0	0.0
16	2.6	2.5.
17	0.6	0.8
18	2.5	2.4
19	2.4	0.4
20	2.0	0.0
21	1.9	0.0
22	2.0	0.6
23	0.0	0.0
24	2.0	0.6
25	4.9	5.0
26	2.0	0.0
27	0.0	2.5
28	4.2	2.8
29	4.3	1.7
30	2.3	0.9
31	1.0	1.8
32	2.4	2.3
33	2.5	2.4
34	0.6	0.8
35	2.5	2.5

MODE PIN NO.	REC	PLAY
36	0.0	0.0
37	1.6	1.6
38	0.0	0.0
39	0.0	0.0
40	5.0	5.0
41	0.0	0.0
42	4.8	4.8
43	4.8	4.8
44	2.3	2.3
45	0.1	0.0
46	3.4	3.4
47	2.8	2.4
48	2.2	2.2
49	3.5	3.4
50	3.2	3.4
51	5.0	5.0
52	3.3	3.4
53	4.3	4.3
54	2.3	2.3
55	0.0	0.0
56	0.0	0.0
57	4.3	4.3
58	10.7	10.8
59	4.3	4.3
60	0.0	1.2
61	2.5	2.5
62	2.4	2.3
63	2.6	2.5
64	0.5	0.3
IC2602		
1	0.0	0.0
2	0.0	0.0
3	0.0	0.0
4	0.0	0.0
5	0.0	0.0
6	0.0	0.0
7	-6.7	-6.5
8	0.0	0.0
9	0.0	0.0
10	0.0	0.0
11	0.0	0.0
12	0.0	0.0
13	0.0	0.0
14	0.0	0.0
15	0.0	0.0
16	5.5	5.4
IC2603		
1	0.0	0.0
2	0.0	0.0
3	0.0	0.0
4	-6.7	-6.5
5	0.0	0.0
6	0.0	0.0
7	0.0	0.0
8	9.2	9.2
IC2604		
1	0.0	0.0
2	0.0	0.0
3	0.0	0.0
4	0.0	0.0
5	0.0	0.0
6	0.0	0.0
7	-6.7	-6.4
8	0.0	0.0
9	5.0	5.0
10	0.0	0.0
11	0.0	0.0
12	0.0	0.0
13	0.0	0.0
14	0.0	0.0
15	0.0	0.0
16	5.5	5.5
IC2605		
1	0.0	0.0
2	0.0	0.0
3	0.0	0.0
4	-6.8	-6.4
5	0.0	0.0
6	0.0	0.0
7	0.0	0.0
8	9.1	9.1
IC3001		
1	2.8	2.4
2	0.0	0.0
3	1.8	2.5
4	2.5	2.4
5	0.0	0.0
6	2.6	2.6
7	2.5	2.4
8	2.3	2.4
9	5.0	5.0
10	0.0	5.0
11	0.0	0.0
12	1.7	1.7
13	0.0	0.0
14	4.6	4.6
15	4.3	0.0

MODE PIN NO.	REC	PLAY
16	5.0	5.0
17	0.0	0.0
18	0.0	0.0
19	0.0	0.0
20	2.3	2.3
21	0.0	2.0
22	4.2	2.7
23	0.0	0.0
24	4.9	4.9
25	4.9	0.0
26	0.0	0.0
27	5.0	0.0
28	0.0	0.0
29	4.9	4.9
30	0.0	0.0
31	0.0	0.0
32	5.0	14.9
33	0.0	0.0
34	0.0	0.0
35	2.4	0.0
36	5.0	5.0
37	4.7	4.7
38	0.0	0.0
39	2.8	0.0
40	0.0	0.0
41	4.9	4.9
42	4.3	4.3
43	0.0	0.0
44	0.0	0.0
45	5.0	0.0
46	0.1	-
47	0.5	-
48	4.1	4.0
49	4.8	4.8
50	4.8	4.8
51	4.8	4.8
52	1.5	-
53	4.3	4.1
54	-	4.9
55	-	-
56	-	-
57	0.2	0.1
58	5.0	0.0
59	0.0	0.0
60	4.3	5.0
61	4.3	0.0
62	0.0	0.0
63	0.0	0.0
64	0.0	1.2
65	0.6	0.6
66	5.1	5.0
67	2.4	2.4
68	0.0	0.0
69	2.4	2.4
70	5.0	0.0
71	5.0	5.0
72	0.0	0.0
73	0.0	0.0
74	0.0	0.0
75	0.0	-
76	3.7	3.6
77	0.0	0.0
78	5.0	0.0
79	0.4	0.1
80	0.0	0.0
81	0.0	0.0
82	5.0	5.0
83	5.0	0.0
84	0.0	0.0
85	0.0	0.0
86	0.0	0.0
87	0.0	0.0
88	4.9	0.0
89	0.0	5.0
90	0.0	5.0
91	3.0	2.8
92	5.0	5.0
93	0.0	0.0
94	5.0	4.9
95	0.1	0.0
96	4.9	4.9
97	4.9	4.9
98	0.2	0.3
99	0.0	2.5
100	2.5	2.4
101	2.5	2.5
102	2.4	2.4
103	0.0	0.0
104	5.0	4.9
105	0.0	0.0
106	5.0	5.0
107	0.0	0.0
108	1.3	1.2
109	5.0	5.0
110	0.0	0.0
111	0.0	0.0
112	2.5	2.5

MODE PIN NO.	REC	PLAY
IC3002		
1	5.0	5.0
2	5.0	5.0
3	0.0	0.0
4	0.0	0.0
IC3003		
1	0.0	0.0
2	0.0	0.0
3	0.0	0.0
4	0.0	0.0
5	4.0	3.6
6	4.1	4.2
7	0.0	0.0
8	5.0	5.0
IC3601		
1	0.0	0.0
2	0.1	0.1
3	0.1	0.1
4	0.0	0.0
5	4.8	0.0
6	0.0	0.0
7	0.0	0.0
8	2.6	2.6
9	3.8	3.7
10	0.2	-
11	0.3	3.7
12	3.5	3.5
13	3.7	3.7
14	3.3	3.4
15	0.0	0.0
16	5.0	5.0
IC7502		
1	2.4	2.3
2	0.0	0.2
3	2.2	2.2
4	2.4	2.3
5	2.4	2.3
6	0.0	0.0
7	0.0	0.0
8	0.0	0.0
9	0.0	0.0
10	0.0	0.0
11	0.0	0.0
12	2.4	2.3
13	2.2	2.2
14	2.3	2.3
15	0.0	0.2
16	5.8	5.8
Q503		
E	1.8	1.8
C	4.9	5.0
B	2.4	2.4
Q504		
E	1.5	1.5
C	0.0	0.0
B	0.8	0.8
Q505		
E	2.9	3.0
C	0.0	0.0
B	2.2	2.3
Q506		
E	3.1	3.0
C	0.0	0.0
B	2.4	2.3
Q2001		
E	-9.9	0.0
C	0.0	0.0
B	-18.4	0.7
Q2002		
E	-9.9	0.0
C	0.0	0.0
B	-18.1	0.7
Q2003		
E	5.0	5.0
C	-18.2	4.9
B	4.8	0.0
Q2051		
E	0.0	0.0
C	7.5	0.0
B	0.3	0.0
Q2052		
E	10.6	10.7
C	10.5	0.0
B	10.0	10.7
Q2053		
E	0.0	0.0
C	0.0	10.6
B	5.0	0.0
Q2054		
E	10.4	0.0
C	10.3	0.0
B	9.8	0.0
Q2055		
E	0.0	0.0
C	0.0	0.0
B	4.8	0.0
Q2201		

MODE PIN NO.	REC	PLAY
E	5.8	5.8
C	0.0	-0.7
B	5.7	5.7
Q2202		
E	0.0	0.0
C	5.7	5.7
B	0.0	0.0
Q2203		
E	0.0	0.0
C	0.0	0.0
B	0.0	-0.7
Q2204		
E	0.0	0.0
C	0.0	0.0
B	0.0	-0.9
Q2601		
E	0.0	0.0
C	0.0	0.0
B	0.0	-0.8
Q2602		
E	0.0	0.0
C	0.0	0.0
B	0.0	-0.8
Q2603		
E	5.2	5.2
C	0.0	-1.0
B	5.0	5.0
Q3002		
E	0.0	0.0
C	4.6	4.6
B	-	-
Q3003		
E	0.0	0.0
C	4.6	4.7
B	-	-
Q3004		
E	0.0	0.0
C	0.0	0.0
B	0.7	0.7
Q3005		
E	5.0	5.0
C	5.8	5.8
B	5.6	5.6
Q3011		
E	0.0	0.0
C	0.0	0.0
B	3.5	3.5
Q3901		
E	0.0	0.0
C	5.0	5.0
B	0.0	0.0
Q4001		
E	0.0	0.0
C	0.0	0.0
B	4.9	4.9
Q6030		
E	2.1	2.2
C	0.0	0.0
B	1.6	1.6
Q6130		
E	2.8	2.8
C	0.0	0.0
B	2.2	2.1
Q7201		
E	0.0	0.0
C	5.7	5.7
B	0.0	0.0
Q7501		
E	2.8	2.8
C	0.0	0.0
B	2.2	2.2
Q7573		
E	3.1	3.0
C	0.0	0.0
B	2.5	2.4
Q7591		
E	0.0	0.0
C	0.0	0.0
B	0.0	0.0
Q7592		
E	0.0	0.0
C	0.0	0.0
B	0.0	0.0
TU6001		
27	0.0	0.0
28	0.0	5.0
29	4.9	4.9
30	0.0	4.9
31	0.0	0.0
32	-	-
33	1.9	2.0
34	0.0	0.0
35	0.0	0.0
36	4.3	5.0
37	4.3	5.0
38	2.4	2.3
39	2.4	2.5

MODE PIN NO.	REC	PLAY
40	2.3	2.3
41	32.5	32.5
42	0.0	0.0
43	1.6	1.6
TU6002		
1	0.0	0.0
2	4.3	4.3
3	4.9	4.9
4	0.0	0.0
5	0.0	0.0
6	-	-
7	3.8	3.8
8	0.0	0.0
9	0.0	0.0
10	4.2	4.2
11	3.9	3.8
12	1.7	1.7
13	2.2	2.3
14	2.3	2.3
15	32.5	32.5
16	0.0	0.0
17	2.2	2.2
CN1		
1	0.0	0.0
2	0.0	0.0
3	0.0	0.0
4	2.4	2.2
5	2.4	2.2
6	2.4	2.3
7	1.9	0.0
8	1.9	0.0
9	1.9	0.0
CN501		
1	0.0	0.0
2	1.8	1.8
3	0.0	0.0
4	3.0	3.0
CN2001		
1	0.0	0.0
2	0.0	0.0
3	0.0	0.0
4	0.0	0.0
5	2.1	2.5
6	2.4	2.5
CN2002		
1	0.0	0.0
2	0.0	0.0
CN2601		
1	0.0	0.0
2	0.0	0.0
3	0.0	0.0
4	0.0	0.0
5	0.0	0.0
6	0.0	0.0
7	0.0	0.0
8	0.0	0.0
9	0.0	0.0
10	3.3	3.3
11	1.7	1.7
CN3001		
1	2.4	2.4
2	12.0	12.0
3	5.0	5.0
4	0.0	0.0
5	10.1	10.1
6	0.0	0.0
7	0.0	0.0
8	12.0	12.0
9	2.5	2.5
10	2.4	2.4
11	1.2	1.2
12	2.4	2.4
CN3102		
1	3.3	3.4
2	3.7	3.7
3	0.0	0.0
4	0.0	0.0
5	0.0	0.0
6	5.0	5.0
7	4.3	4.9
8	4.3	4.1
9	4.8	4.8
10	1.4	1.8
11	-	3.0
CN3103		
1	4.8	4.8
2	4.8	4.8
3	5.0	5.0
4	3.9	4.0
5	2.4	-
6	0.4	0.5
7	0.2	-
8	0.0	0.0
9	4.7	4.9
10	5.0	5.0
11	0.0	0.0
12	5.0	5.0

MODE PIN NO.	REC	PLAY
13	4.8	4.8
14	0.0	0.0
15	0.0	0.0
CN3104		
1	0.0	0.0
2	0.0	0.0
3	0.0	0.0
4	0.0	0.0
5	0.1	0.1
6	0.1	0.0
7	0.0	0.0
8	0.0	0.0
9	0.0	0.0
10	3.7	3.7
11	0.2	0.3
12	0.2	3.7
13	0.0	0.0
CN5311		
1	5.0	5.0
2	10.7	10.8
3	32.5	32.5
4	54.0	53.9
5	2.6	2.5
6	-6.7	-6.6
7	0.0	0.0
8	0.0	0.0
9	3.3	4.9
10	5.8	5.8
11	4.9	4.9
12	12.0	12.0
13	0.0	0.0
14	12.0	12.0
15	0.0	0.0
CN6501		
1	0.0	0.0
2	4.0	3.6
3	4.2	4.1
4	0.0	0.0
5	0.0	0.0
6	0.0	0.0
7	5.0	4.9
8	0.0	0.0
9	2.3	2.3
CN7501		
1	2.4	2.4
2	0.0	0.0
3	2.4	2.4
4	0.0	0.0
5	2.2	2.2
6	0.0	0.0
7	0.0	0.0
8	2.4	2.3
9	0.0	0.0
10	2.2	2.2
11	0.0	0.0
12	2.1	2.2
13	2.2	2.1
CN7505		
1	4.8	4.7
2	2.2	2.2
3	5.0	5.0
4	0.0	0.0
5	2.2	2.9
6	4.7	4.8
7	1.4	2.0
8	4.2	4.1
9	0.0	0.0
10	5.0	4.9
11	2.4	2.3
12	0.0	0.0
13	2.4	2.3
14	5.0	5.0
FW7504		
1	1.7	1.7
2	3.2	3.3
3	0.0	0.0
JS3001		
1	0.0	0.0
2	0.0	0.0
3	5.0	5.0
4	0.0	0.0
5	5.0	5.0

<DEMOD>

MODE PIN NO.	REC	PLAY
IC6501	-	-
IC6701	-	-

<ONSCREEN>

MODE PIN NO.	REC	PLAY
IC201		
1	0.0	0.0
2	2.6	2.6
3	5.0	5.0
4	0.0	0.0
5	0.0	0.0
6	2.4	2.5
7	2.5	2.4
8	5.0	5.0
9	2.7	3.2
10	4.1	4.0
11	1.8	1.8
12	5.0	5.0
13	2.4	2.5
14	0.0	0.0
15	2.4	2.4
16	5.0	5.0
17	3.0	3.0
18	3.6	3.6
19	5.0	5.0
20	5.0	5.0
21	5.0	5.0
22	4.9	4.9
23	5.0	5.0
24	5.0	5.0
CN201		
1	4.8	4.9
2	2.2	2.3
3	5.0	5.0
4	0.0	0.0
5	1.6	3.0
6	4.8	4.9
7	1.2	1.5
8	1.3	4.2
9	0.0	0.0
10	5.0	5.0
11	2.4	2.4
12	0.0	0.0
13	2.4	2.4
14	5.0	5.0

<OPERATION JACK>

MODE PIN NO.	REC	PLAY
CN7201		
1	0.0	0.0
2	0.4	3.8
3	0.3	0.1
4	3.8	3.8
5	0.0	0.1
6	0.0	0.0
7	0.0	0.0
8	0.0	0.0
9	0.2	0.0
10	0.0	0.0
11	0.0	0.0
12	0.0	0.0
13	0.0	0.0
CN7202		
1	0.2	0.2
2	1.1	1.1
3	0.0	0.0
4	0.0	0.0
5	5.0	5.0

<SWITCH DISPLAY>

MODE PIN NO.	REC	PLAY
IC7001		
1	5.0	5.0
2	5.0	5.0
3	5.0	5.0
4	5.0	5.0
5	2.8	2.7
6	4.7	4.7
7	1.2	1.5
8	0.0	4.2
9	2.9	2.7
10	0.0	0.0
11	0.0	0.0
12	0.0	0.0
13	5.0	5.1
14	-27.2	-27.2
15	-29.5	-29.6
16	-29.6	-29.6
17	-29.6	-29.6
18	-28.4	-29.5
19	-26.0	-27.1
20	-25.9	-29.6
21	-27.1	-28.6
22	-17.5	-18.7
23	-17.3	-19.8
24	-24.6	-29.5
25	-27.1	-29.5
26	-29.6	-29.5
27	0.0	-29.5
28	0.0	-27.1
29	-27.2	-29.6
30	-30.3	-30.2
31	-27.5	-27.4
32	-27.5	-27.4
33	-27.5	-27.4
34	-27.5	-27.5
35	-27.4	-27.4
36	-27.5	-27.4
37	-27.5	-27.4
38	-27.5	-27.4
39	-27.5	-27.5
40	-27.5	-27.4
41	-27.5	-27.4
42	0.0	-27.4
43	5.0	5.0
44	0.0	0.0
IC7002		
1	5.0	5.0
2	5.0	5.0
3	0.0	0.0
CN7001		
1	2.9	2.7
2	1.0	1.8
3	4.8	4.9
4	4.2	4.1
5	5.0	5.0
6	5.0	5.0
7	0.0	0.0
8	0.0	0.0
9	0.0	0.0
10	3.7	3.7
11	3.5	3.5
CN7002		
1	0.0	0.0
2	-16.9	-17.0
3	-30.3	-30.2
4	-21.2	-21.2
FW7001		
1	0.3	0.2
2	1.0	1.1
3	0.0	0.0
4	0.0	0.0
5	5.0	5.0

<JUNCTION>

MODE PIN NO.	REC	PLAY
IC5501		
1	2.6	2.6
2	0.0	0.0
3	0.0	0.0
4	1.2	1.1
5	4.9	4.9
6	0.0	0.0
7	0.0	0.0
8	3.4	3.3
IC5502		
1	5.0	5.0
2	0.0	0.0
3	0.0	0.0
4	3.3	3.3
5	4.9	4.9
6	0.0	0.0
7	0.0	0.0
8	5.7	5.7
IC5503		
1	5.0	5.0
2	0.0	0.1
3	0.0	0.0
4	3.3	3.3
5	4.9	4.9
6	0.0	0.0
7	0.0	0.0
8	5.7	5.7
IC5504		
1	2.4	3.4
2	0.0	0.0
3	0.0	0.0
4	2.0	2.0
5	4.9	4.9
6	0.0	0.0
7	4.2	4.2
IC5505		
1	3.3	3.3
2	0.0	0.0
3	0.0	0.0
4	1.9	1.9
5	4.9	4.9
6	0.0	0.0
7	4.2	4.2
IC7101		
1	5.0	4.9
2	2.3	2.3
3	4.8	4.8
4	1.0	1.2
5	0.0	0.0
6	1.6	1.6
7	0.0	0.1
8	2.3	2.4
9	3.4	3.4
10	1.7	1.7
11	0.0	0.0
12	2.3	2.3
13	4.8	4.7
14	2.3	2.3
15	0.0	0.0
16	2.4	2.4
17	0.0	0.0
18	2.4	2.4
19	0.0	0.0
20	2.2	2.3
21	2.2	2.2
22	0.0	0.0
23	2.2	2.2
24	0.0	0.0
25	0.0	0.0
26	2.4	2.3
27	0.0	0.0
28	4.9	4.9
IC8001		
1	0.0	0.0
2	0.0	0.0
3	0.0	0.0
4	-3.8	-3.6
5	0.0	0.0
6	0.0	0.0
7	0.0	0.0
8	8.5	8.5
IC8002		
1	2.4	2.5
2	2.4	2.5
3	0.0	0.0
4	2.4	2.5
5	0.0	0.0
6	5.0	4.9
7	3.4	3.4
8	0.0	0.0
9	1.3	0.9
10	1.7	1.7
11	1.7	1.7
12	1.7	1.7
13	3.1	3.1
14	3.4	3.4
15	0.0	0.0

MODE PIN NO.	REC	PLAY
16	0.0	0.0
IC8201		
1	-	0.7
2	1.4	1.4
3	0.0	1.1
4	-4.1	-3.8
5	0.9	1.0
6	1.5	1.6
7	1.5	1.0
8	8.5	8.6
IC8202		
1	1.7	1.8
2	1.4	1.7
3	1.8	1.8
4	1.7	1.6
5	3.4	3.4
6	3.4	3.4
7	2.9	2.8
8	0.1	0.0
9	2.0	2.5
10	3.1	2.0
11	2.1	2.9
12	2.1	2.6
13	0.0	0.0
14	4.9	4.9
15	0.0	0.0
16	0.0	0.0
Q5501		
E	-4.3	-3.6
C	-4.3	-3.7
B	-3.3	-3.2
Q5502		
1(E)	0.0	0.0
2(B)	5.0	5.0
3(C)	5.8	5.8
4(E)	5.8	5.8
5(B)	0.0	0.0
6(C)	-	0.0
Q5503		
E	-16.9	-16.8
C	-16.8	-16.7
B	-16.2	-16.1
Q5504		
1(E)	0.0	0.0
2(B)	5.0	5.7
3(C)	5.7	5.7
4(E)	5.8	5.8
5(B)	0.0	0.0
6(C)	0.0	0.0
Q7101		
E	1.9	1.9
C	0.0	0.0
B	1.1	1.2
Q8001		
E	0.0	0.0
C	0.0	0.0
B	0.7	0.7
Q8002		
E	0.0	0.0
C	0.0	0.0
B	0.7	0.7
Q8003		
E	0.0	0.0
C	0.0	0.0
B	5.0	5.0
Q8004		
E	0.0	0.0
C	0.0	0.0
B	0.0	0.0
Q8005		
E	5.0	5.0
C	4.8	4.8
B	0.0	0.0
CN5501		
1	4.9	4.8
2	2.0	1.9
3	1.9	1.8
4	3.4	3.4
5	4.9	4.9
6	5.8	5.8
7	0.0	0.0
8	0.0	0.0
9	0.0	0.0
10	0.0	0.0
11	10.8	10.8
12	-4.1	-3.9
13	-30.2	-30.1
14	-21.3	-21.1
15	-16.8	-16.7
CN7102		
1	4.8	4.8
2	4.8	4.7
3	5.0	5.0
4	4.0	4.0
5	-	2.0
6	0.4	0.5
7	0.1	0.1

MODE PIN NO.	REC	PLAY
8	0.0	0.0
9	4.9	4.9
10	5.0	5.0
11	0.0	0.0
12	5.9	5.0
13	4.8	4.8
14	0.0	0.0
15	0.0	0.0
CN7103		
1	-21.1	-21.2
2	-16.9	-16.9
3	-30.2	-30.2
4	0.0	0.0
CN7104		
1	3.0	3.0
2	0.0	0.0
3	1.7	1.8
4	0.0	0.0
CN7105		
1	2.7	2.7
2	0.0	0.0
3	3.4	3.4
4	3.5	3.4
CN7106		
1	3.4	3.4
2	3.4	3.4
3	0.0	0.0
4	2.7	2.7
CN7107		
1	2.2	2.2
2	2.2	2.2
3	0.0	0.0
4	2.2	2.2
5	0.0	0.0
6	2.3	2.3
7	0.0	0.0
8	0.0	0.0
9	2.2	2.2
10	0.0	0.0
11	2.4	2.4
12	0.0	0.0
13	2.4	2.4
CN7108		
1	0.0	0.0
2	0.0	0.0
3	0.0	0.0
4	0.0	0.0
5	0.0	0.0
6	1.2	1.2
7	0.0	0.0
8	0.0	0.0
9	0.0	0.0
10	1.1	1.1
11	1.1	1.1
12	0.0	0.0
13	3.4	3.4
14	1.1	1.1
15	0.0	0.0
16	0.0	0.0
17	0.0	0.0
18	3.0	3.0
19	1.7	1.7
20	1.7	1.7
21	3.4	3.4
22	0.0	0.0
23	3.5	3.5
24	1.7	1.7
25	0.0	0.1
26	1.7	1.7
27	2.7	2.7
28	1.8	1.6
CN7109		
1	0.0	0.0
2	4.0	4.2
3	0	0.0
4	2.1	1.7
5	1.4	1.3
6	5.0	5.0
7	4.9	4.9
8	5.0	5.0
9	0.0	0.0
10	5.0	5.0
11	0.1	0.1
12	0.0	0.0
13	0.6	5.0
14	5.0	5.0
15	0.0	0.0
16	3.3	3.2
17	0.0	0.0
18	0.0	0.0
19	1.7	1.6
20	0.0	0.0
21	1.8	1.7
22	1.8	1.8
23	1.8	1.7
24	1.8	1.8
25	2.5	2.6

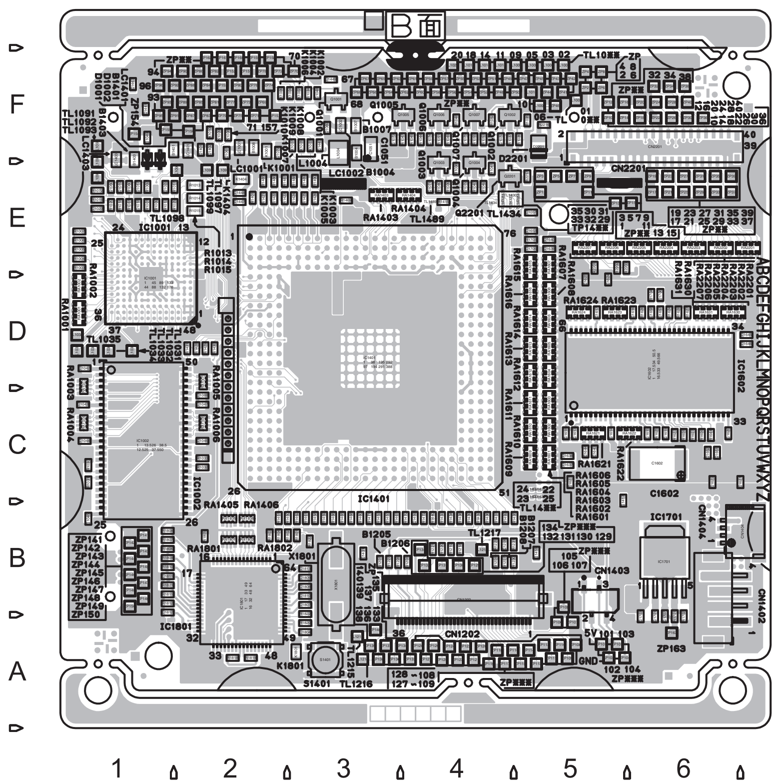
MODE PIN NO.	REC	PLAY
26	2.5	2.5
27	3.4	3.4
28	3.4	3.5
CN7125		
1	3.4	3.4
2	3.4	3.4
3	0.0	0.0
4	0.0	2.7
CN8001		
1	0.0	0.0
2	0.0	0.0
3	0.0	0.0
4	0.0	0.0
5	0.0	0.0
6	0.0	0.0
7	0.0	0.0
8	0.0	0.0
9	0.0	0.0
10	3.3	3.3
11	1.7	1.7

<JACK>

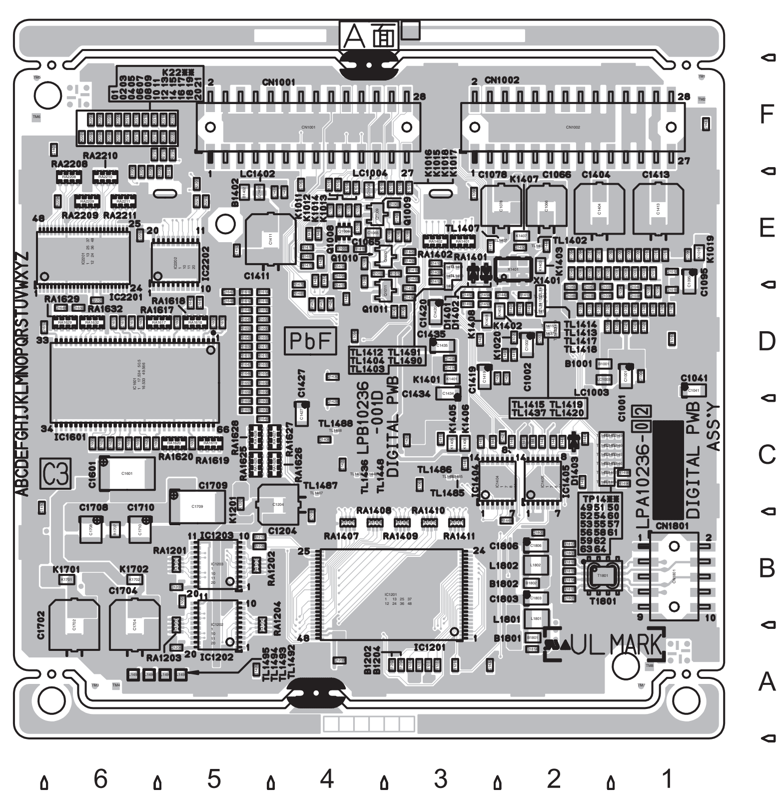
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IC8501		
1	0.0	0.0
2	0.0	0.0
3	0.0	0.0
4	0.0	0.0
5	0.0	0.0
6	0.0	0.0
7	0.0	0.0
8	0.0	1.7
9	1.7	1.8
10	3.3	3.2
11	1.6	1.6
12	1.7	1.7
13	3.3	3.3
14	3.3	3.3
CN4104	-	-
CN8501		
1	1.7	1.7
2	3.3	3.3
3		0.0

■ DIGITAL CIRCUIT BOARD

<02> DIGITAL
LPB10236-001D **-FOIL SIDE-**



<02> DIGITAL
LPB10236-001D **-COMPONENT SIDE-**



COMPONENT PARTS LOCATION GUIDE <DIGITAL> LPB10236-001D

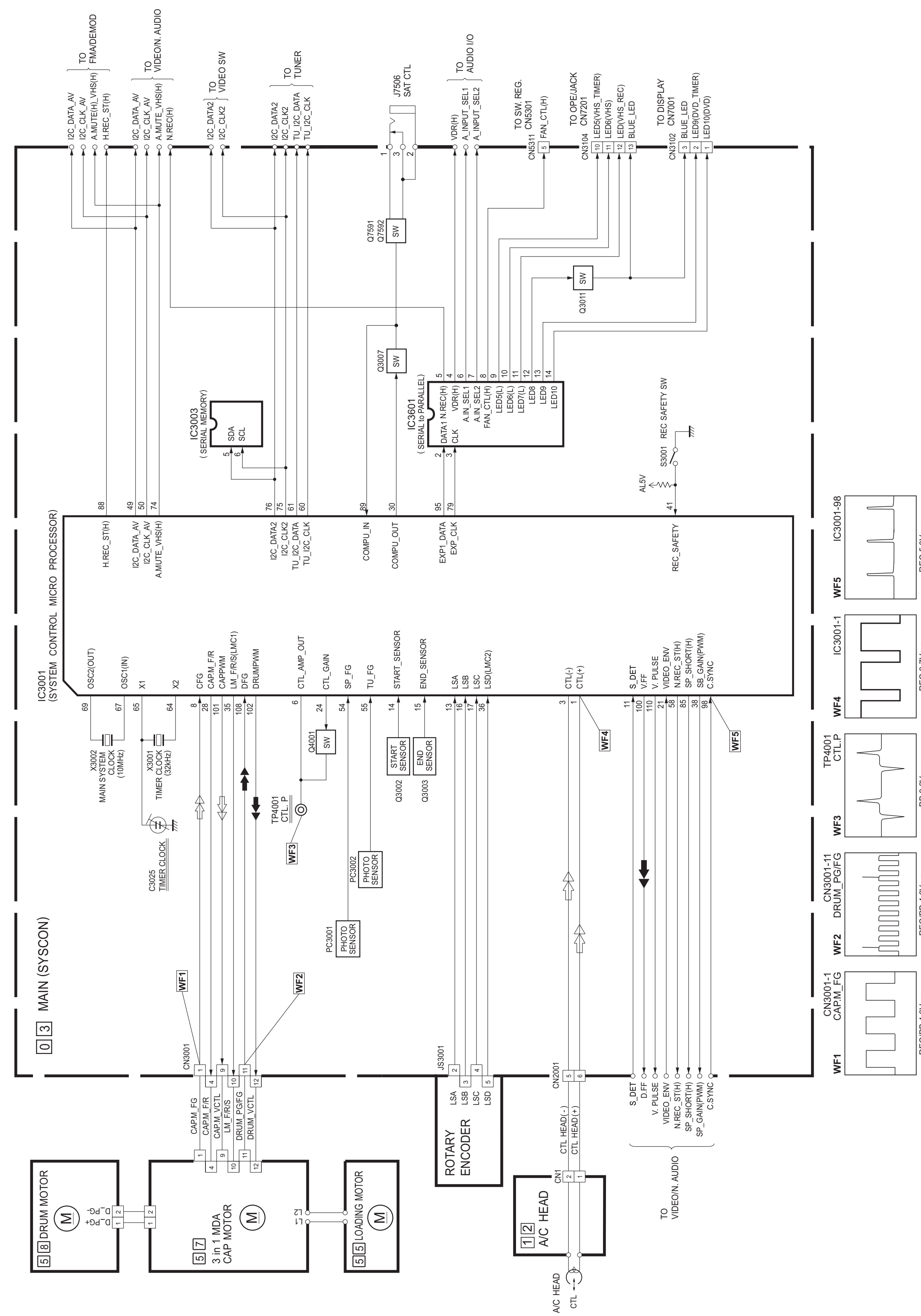
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CAPACITOR	
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C1002	A C 2D
C1003	A C 2D
C1004	A C 1D
C1005	A C 1E
C1006	A C 1E
C1007	A C 1E
C1008	A C 1E
C1009	A C 1E
C1010	A C 1E
C1011	A C 1E
C1012	A C 1E
C1013	A C 1E
C1014	A C 1D
C1015	A C 1E
C1016	A C 1D
C1017	B C 1E
C1018	B C 1E
C1019	B C 1E
C1020	A C 1D
C1021	A C 1D
C1022	B C 1E
C1023	B C 1E
C1024	A C 1D
C1025	A C 1D
C1026	A C 1D
C1027	A C 1D
C1028	A C 1D
C1029	A C 1D
C1030	A C 1D
C1031	A C 2D
C1032	A C 1D
C1033	A C 2D
C1034	A C 1D
C1035	A C 2D
C1036	A C 2D
C1037	A C 2D
C1038	A C 1D
C1039	A C 2D
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R2217	B C 5E
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RA1002	B C 1D
RA1003	B C 1D
RA1004	B C 1C
RA1005	B C 2D
RA1006	B C 2C
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RA1202	A C 5B
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RA2206	B C 5E
RA2207	B C 5E
RA2208	A C 6E
RA2209	A C 6E
RA2210	A C 6E
RA2211	A C 6E
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K1003	B C 3F
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K1007	B C 3F
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LC1002	B C 3F
LC1003	A C 2D
LC1004	A C 4E
LC1401	B C 2F
LC1402	A C 5E
LC1403	B C 1F
S1401	B C 3A
T1801	A C 2B
TM1	A C 1F
TM2	A C 1F
TM3	A C 6A
TM4	A C 6A
TM5	A C 7F
TM6	A C 7F
TM7	A C 1A
TM8	A C 1A
X1401	A C 2E
X1801	B C 3B

■ CPU PIN FUNCTION

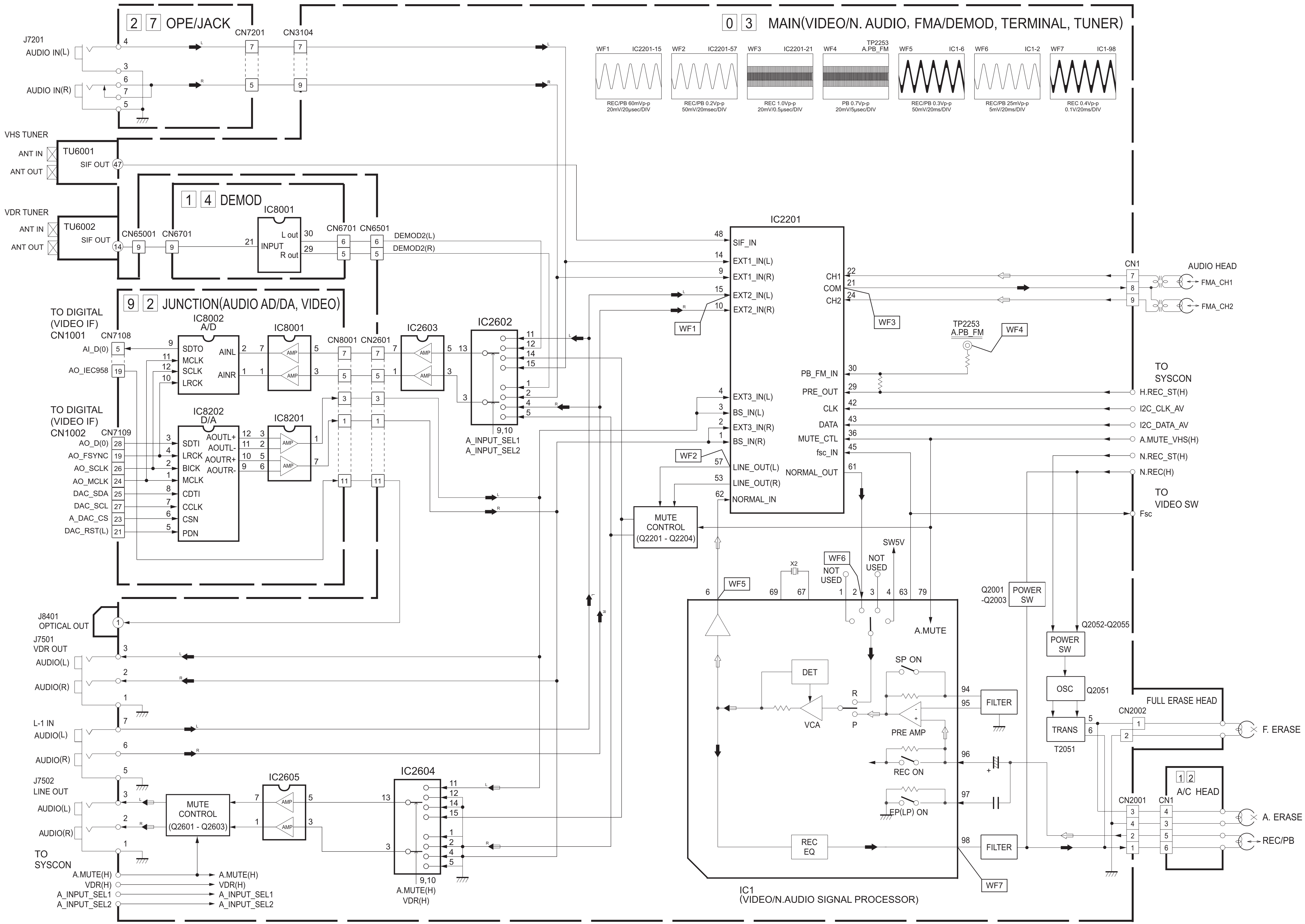
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PIN NO.	LABEL	IN/OUT	FUNCTION
1	CTL[+]	IN/OUT	CTL(+) SIGNAL
2	SVss	-	GND
3	CTL[-]	IN/OUT	CTL(-) SIGNAL
4	CTLBIAS	-	CTL BIAS VOLTAGE
5	CTLFB	IN	CTL PULSE FEEDBACK
6	CTLAMPOUT	OUT	CTL PULSE OUTPUT
7	CTLSMTIN	IN	CTL PULSE OUTPUT
8	CFG	IN	CAPSTAN FG PULSE INPUT
9	SVcc	-	SYSTEM POWER
10	Avcc	-	SYSTEM POWER
11	NORM/MESEC/S_DET	IN	SQPB:H/MESECAM:M/NORMAL:L
12	WIDE_DET2/AFC2	IN	NOT USED/TUNING CHECK
13	LSA	IN	MECHANISM MODE DETECT (A)
14	START_SENSOR	IN	START SENSOR
15	END_SENSOR	IN	END SENSOR
16	LSB	IN	MECHANISM MODE DETECT (B)
17	LSC	IN	MECHANISM MODE DETECT (C)
18	LED/RF_AGC	IN	DETECT THE MTS MODE
19	WIDE_DET	IN	S1/S2 DETECT
20	BS_ANT/AFC	IN	TUNING CHECK
21	VIDEO_ENV	IN	AUTO TRACKING DTECT/INPUT THE AVERAGE OF PLAYBACK VIDEO SIGNAL
22	A.ENV/ND[L]	IN	AUDIO PB FM ENV.INPUT/NON HiFi MODE:L
23	Avss	-	GND
24	CTL_GAIN/TEST	OUT	CONTROL AMP OUT FREQUENCY RESPONSE SWITCHIN
25	A.MUTE_VDR[H]	OUT	AUDIO MUTE CONTROL FOR VDR(MUTE:H)
26	P.MUTE_VDR[H]	OUT	PICTURE MUTE CONTROL FOR VDR(MUTE:H)
27	C.BIAS2/CONV_CTL	OUT	ADD THE DC BIAS TO COLOR OUTPUT/RF CONVERTER CONTROL
28	CAP.M_F/R	OUT	CAPSTAN MOTOR REVERSE CONTROL (FWD:L/REV:H)
29	RC_IN	IN	REMOTE CONTROL DATA INPUT
30	INPUT_SEL1	OUT	VIDEO SIGNAL INPUT SELECT
31	GR_ON[L]	-	NOT USED
32	BS_REC_LINK/COMPU_IN	-	NOT USED
33	INPUT_SEL5/COMPU_OUT	-	NOT USED
34	INPUT_SEL2	OUT	VIDEO SIGNAL INPUT SELECT
35	LM_F/R/S[LMC1]	OUT	LOADING MOTOR DRIVE
36	LSD[LMC2]	IN	MECHANISM MODE DETECT (D)
37	BS_P.CTL[H]/EDS_CS[L]	OUT	EDS CHIP SELECT
38	SB_GAIN[PWM]	OUT	VOLTAGE CONTROL SIGNAL FOR VIDEO FREQUENCY RESPONSE
39	STB	OUT	CLOCK OUTPUT PERMISSION
40	POWER_DET	IN	DETECTION SIGNAL FOR POWER DOWN OF AC POWER SUPPLY
41	REC_SAFETY	IN	REC SAFETY SWITCH DETECT (SW ON:L)
42	PROTECT	IN	DETECTION VOLTAGE FOR SW POWER SUPPLY
43	Vss	-	GND
44	C_BIAS1/RMO	OUT	ADD THE DC BIAS TO COLOR OUTPUT
45	Vcc	-	SYSTEM POWER
46	KBUS_DATA_IN	IN	SERIAL DATA TRANSFER INPUT FROM DVD CPU
47	KBUS_DATA_OUT	OUT	SERIAL DATA TRANSFER OUTPUT TO DVD CPU
48	KBUS_CLK	OUT	SERIAL DATA TRANSFERMER CLOCK FOR DVD CPU
49	12C_DATA_AV	OUT	SERIAL DATA TRANSFER OUTPUT FOR AV IC
50	12C_CLK_AV	IN/OUT	SERIAL DATA TRANSFER CLOCK FOR AV IC
51	S.DATA_TO_SYS	IN	SERIAL DATA TRANSFER OUTPUT FROM THE ON-SCREEN TO THE FDP DRIVER
52	S.DATA_FR_SYS	OUT	SERIAL DATA TRANSFER OUTPUT FROM THE FDP DRIVER TO THE ON-SCREEN
53	S.CLK	OUT	SERIAL DATA TRANSFERMER CLOCKFOR ONSCREEN IC
54	SP_FG	IN	DETECTION SIGNAL FOR SUPPLY REEL ROTATION/TAPE REMAIN
55	TU_FG	IN	DETECTION SIGNAL TAKE-UP REEL ROTATION/TAPE REMAIN
56	KBUS_REQ(IN)	OUT	SERIAL DATA TRANSFER REQUEST TO DVD CPU
57	BS_12C_CLK	-	NOT USED
58	N.REC_ST[H]	OUT	NORMAL AUDIO SOUND RECORDING START
59	JUST_CLOCK/EDS[H]	IN	VIDEO SIGNAL FIELD DETECT
60	TU_12C_DATA	OUT	DATA OUTPUT TO TUNER
61	TU_12C_CLK	OUT	CLOCK OUTPUT TO TUNER
62	FWE	-	FLASH WRITE ENABLE
63	NMI	-	NOT USED
64	X2	-	TIMER CLOCK(32kHz)
65	X1	-	TIMER CLOCK(32kHz)
66	RES	-	RESET TERMINAL(RESET ON:L)
67	OSC1[IN]	IN	MAIN SYSTEM CLOCK(10MHz)
68	Vss	-	GND
69	OSC2[OUT]	IN	MAIN SYSTEM CLOCK(10MHz)
70	Vcc	-	SYSTEM POWER
71	MODE	-	NOT USED
72	SYNC_DET[H]	IN	DETECTION OF VIDEO SYNC SIGNAL (DETECTED : H)
73	S.CASS[H]	IN	DETECTION SIGNAL FOR SVHS CASSETTE(SVHS:H)
74	A.MUTE_VHS[H]	OUT	AUDIO MUTE CONTROL FOR VHS(MUTE:H)
75	12C_CLK2	OUT	SERIAL DATA TRANSFER CLOCK FOR MEMORY IC
76	12C_DATA2	IN/OUT	SERIAL DATA TRANSFER OUTPUT FOR MEMORY IC
77	BS_12C_DATA	-	NOT USED
78	SYNC_DET_VDR[L]	IN	DETECTION OF VIDEO SYNC SIGNAL FOR VDR (DETECTED : L)
79	EXP_CLK	OUT	EXPANDER IC DATA TRANFER CLOCK
80	I.MUTE[L]	OUT	INTERFACE VIDEO SIGNAL MUTING CONTROL OUTPUT
81	TRICK[H]	OUT	SLOW/STILL/SEARCH MODE : H
82	Vcc	-	SYSTEM POWER
83	A.MUTE[H]	OUT	AUDIO MUTE CONTROL (MUTE:H)
84	Vss	-	GND
85	SP_SHORT[H]	OUT	MODE SELECT
86	SLOW_PULSE	-	NOT USED
87	VP_CTL	-	NOT USED
88	H.REC_ST[H]	OUT	HiFi AUDIO SOUND RECORDING START
89	LINE2INFO	-	NOT USED
90	ANT_CTL/CH_SW	OUT	NOT USED/RF CONVERTER CHANNEL SELECT
91	OSD_CS	OUT	ONSCREEN IC CHIP SELECT
92	E5_RESET	OUT	RESET OUTPUT TO IC1401
93	HI_S.FFREW	OUT	HIGH SPEED FF/REW CONTROL
94	ADC_RST[L]	OUT	STEREO A/D CONVERTER RESET PULSE
95	EXP1_DATA	OUT	SERIAL DATA TO EXPAND IC
96	P.SAVE[L]	OUT	POWER SAVE MODE:H
97	P.CTL[H]	OUT	POWER ON/OFF CONTRPL (POWER ON:H)
98	C.SYNC	IN	COMPOSITE SYNC INPUT
99	A.FF	OUT	AUDIO FF OUTPUT
100	V.FF	OUT	ROTATION DETECTION SIGNAL FOR DRUM MOTOR /TIMING CONTROL SIGNAL FOR REC
101	CAPPWM	OUT	CAPSTAN MOTOR CONTROL
102	DRUMPWM	OUT	DRUM MOTOR CONTROL
103	BIT_IN[H]	-	NOT USED
104	P.MUTE_VDR[L]	OUT	PICTURE MUTE CONTROL FOR DVD (MUTE ON:L)
105	ET_REC[H]	OUT	S-VHS ET REC MODE:H
106	P.MUTE_VHS[L]	OUT	PICTURE MUTE CONTROL FOR VHS (MUTE ON:L)
107	DFG	IN	DRUM FG PULSE INPUT
108	DFG	IN	DRUM FG PULSE INPUT
109	Vcc	-	SYSTEM POWER
110	V.PULSE	OUT	V.PULSE ADDITION TIMING CONTROL
111	Vss	-	GND
112	CTLREF	-	CTL REFERENCE VOLTAGE

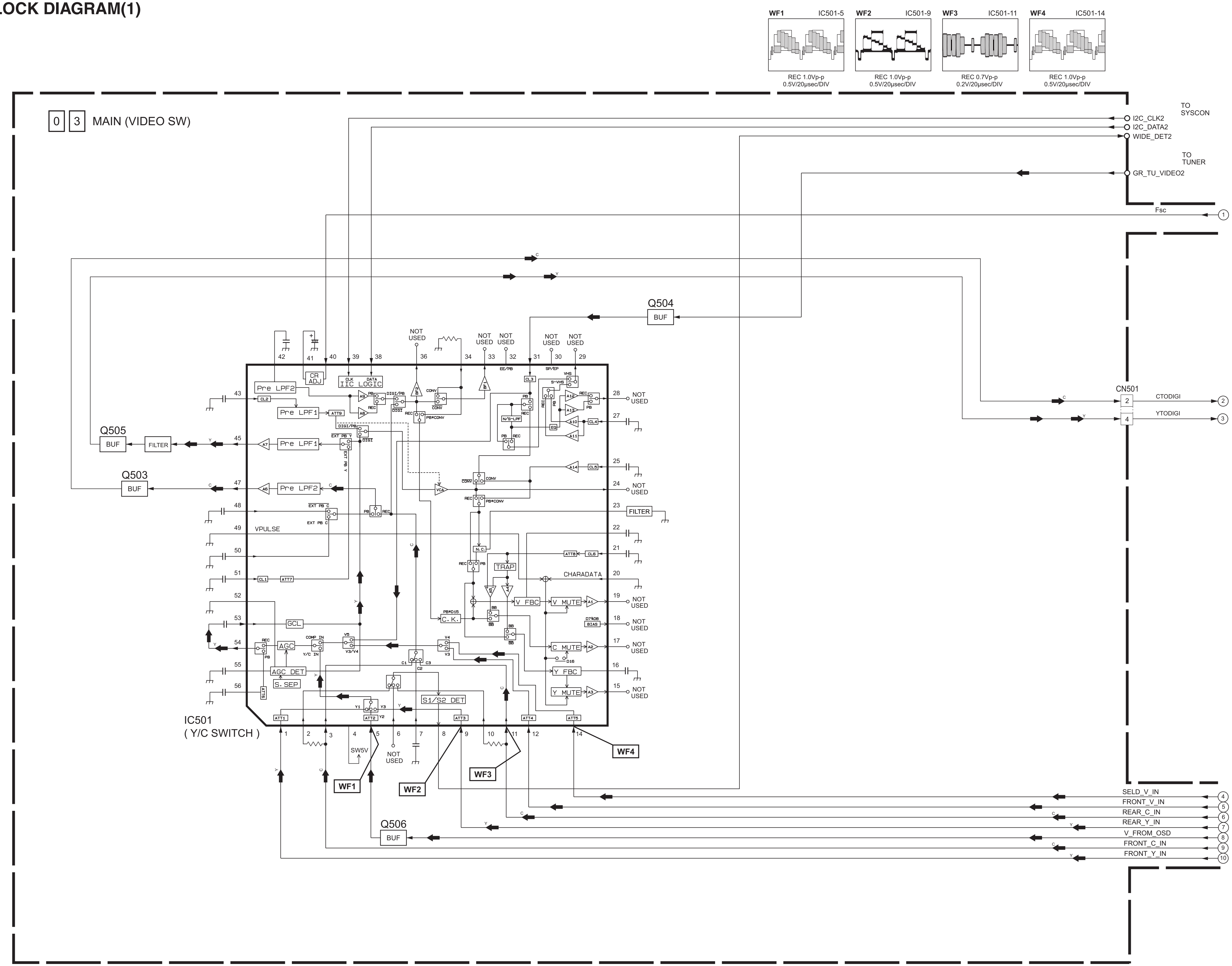
■ SYSTEM CONTROL BLOCK DIAGRAM



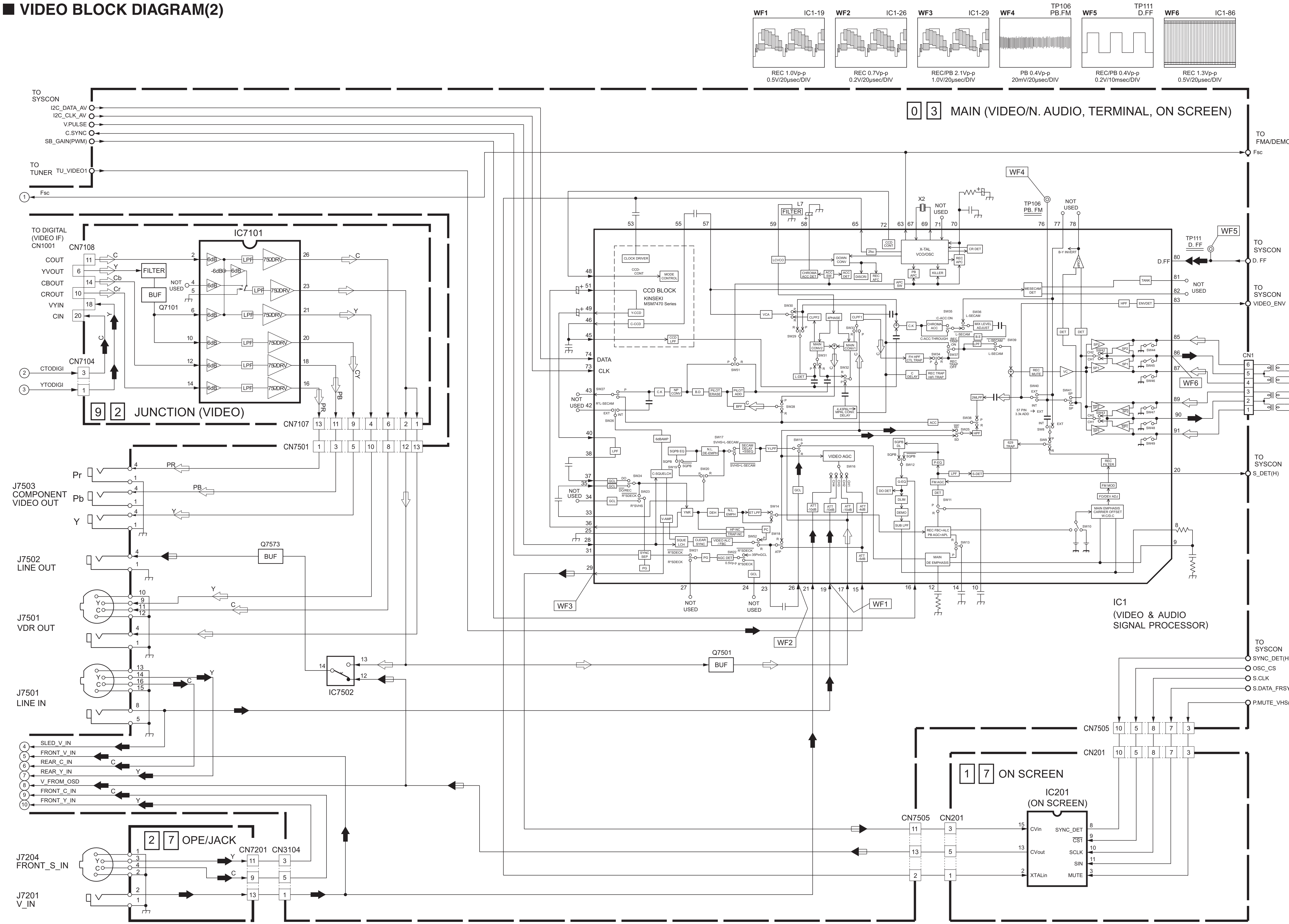
■ AUDIO BLOCK DIAGRAM



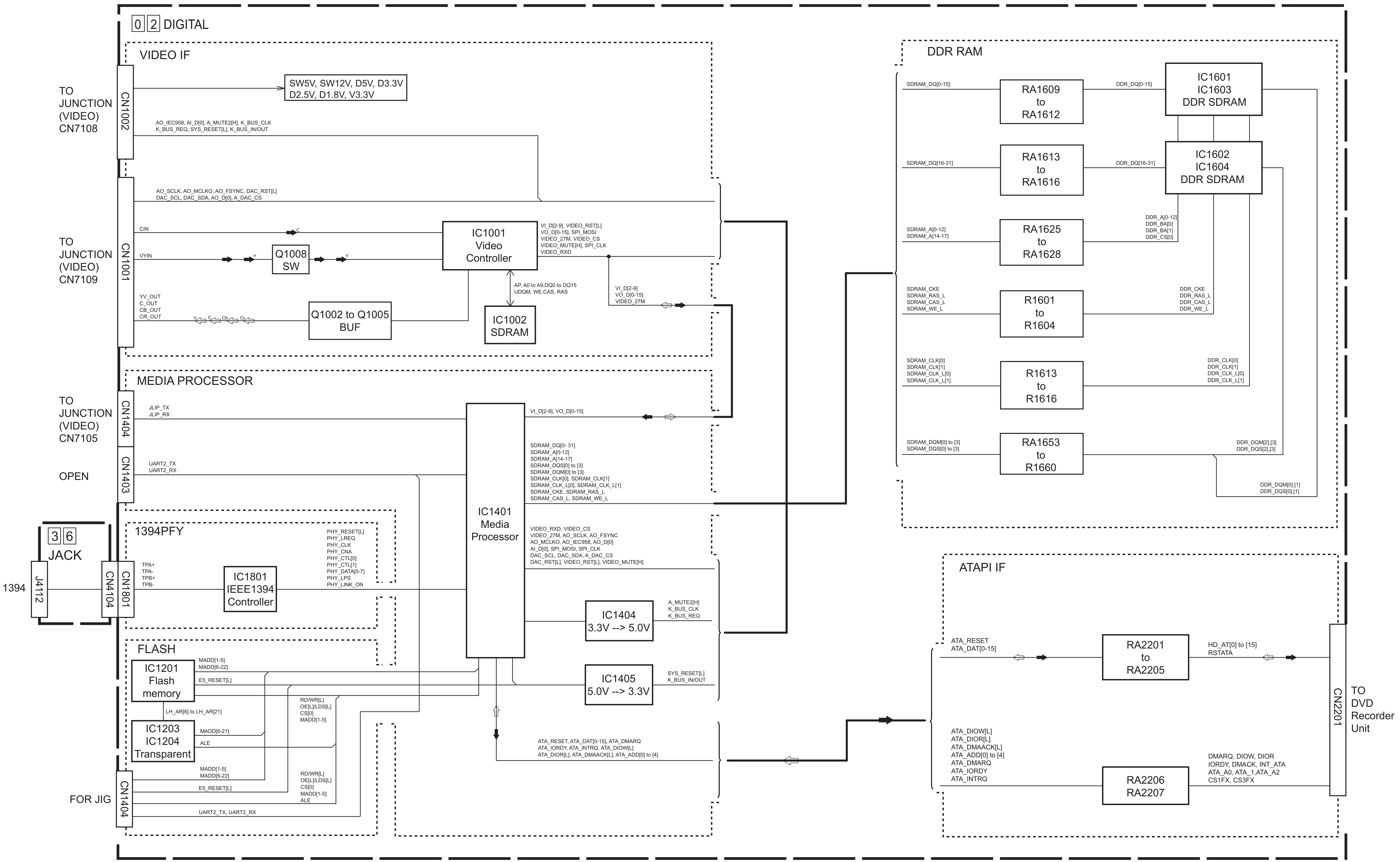
■ VIDEO BLOCK DIAGRAM(1)



■ VIDEO BLOCK DIAGRAM(2)



■ DIGITAL BLOCK DIAGRAM



Preliminary

PARTS LIST

SAFETY PRECAUTION

Parts identified by the ⚠ symbol are critical for safety. Replace only with specified part numbers.

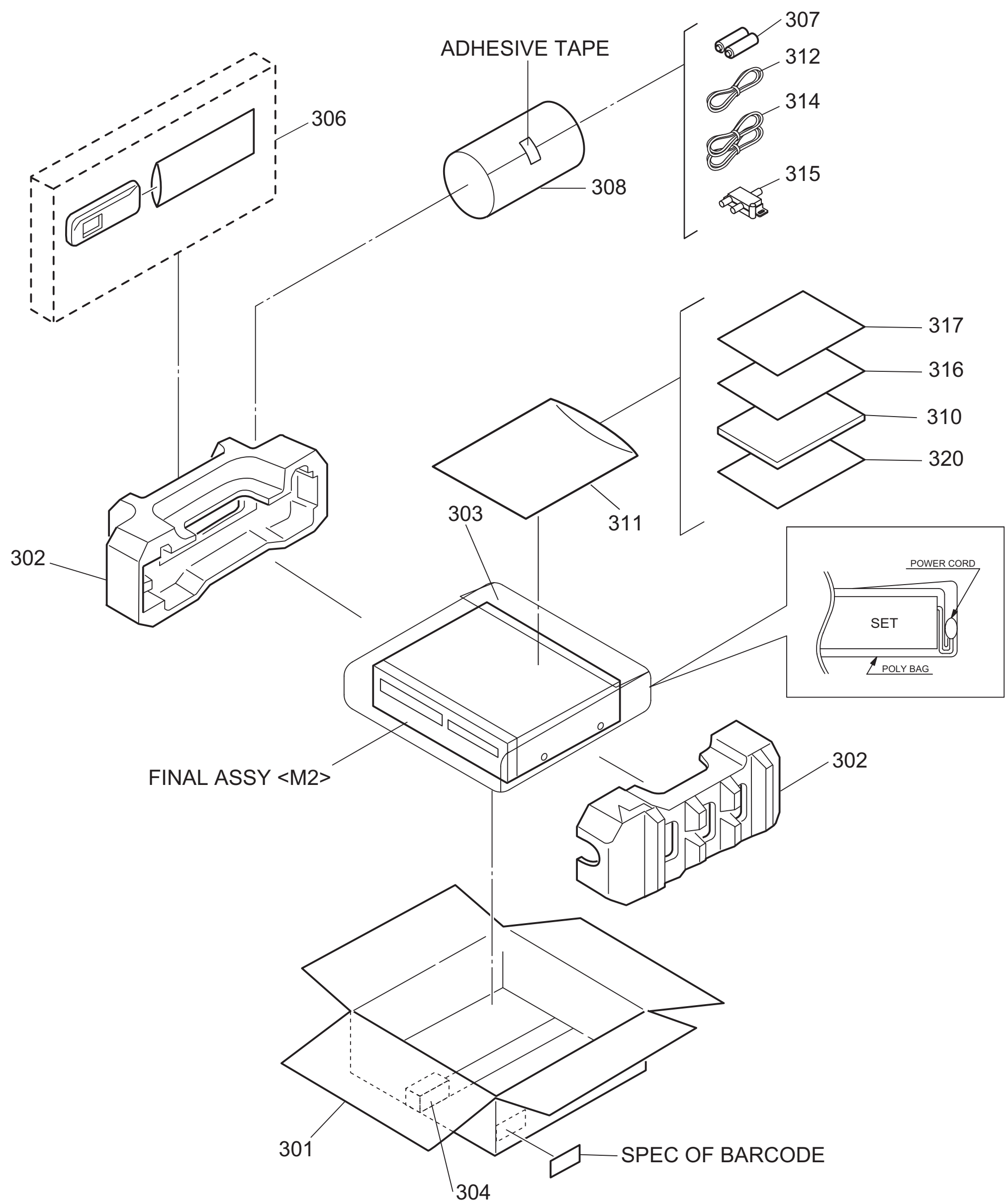
BEWARE OF BOGUS PARTS

Parts that do not meet specifications may cause trouble in regard to safety and performance. We recommend that genuine JVC parts be used.

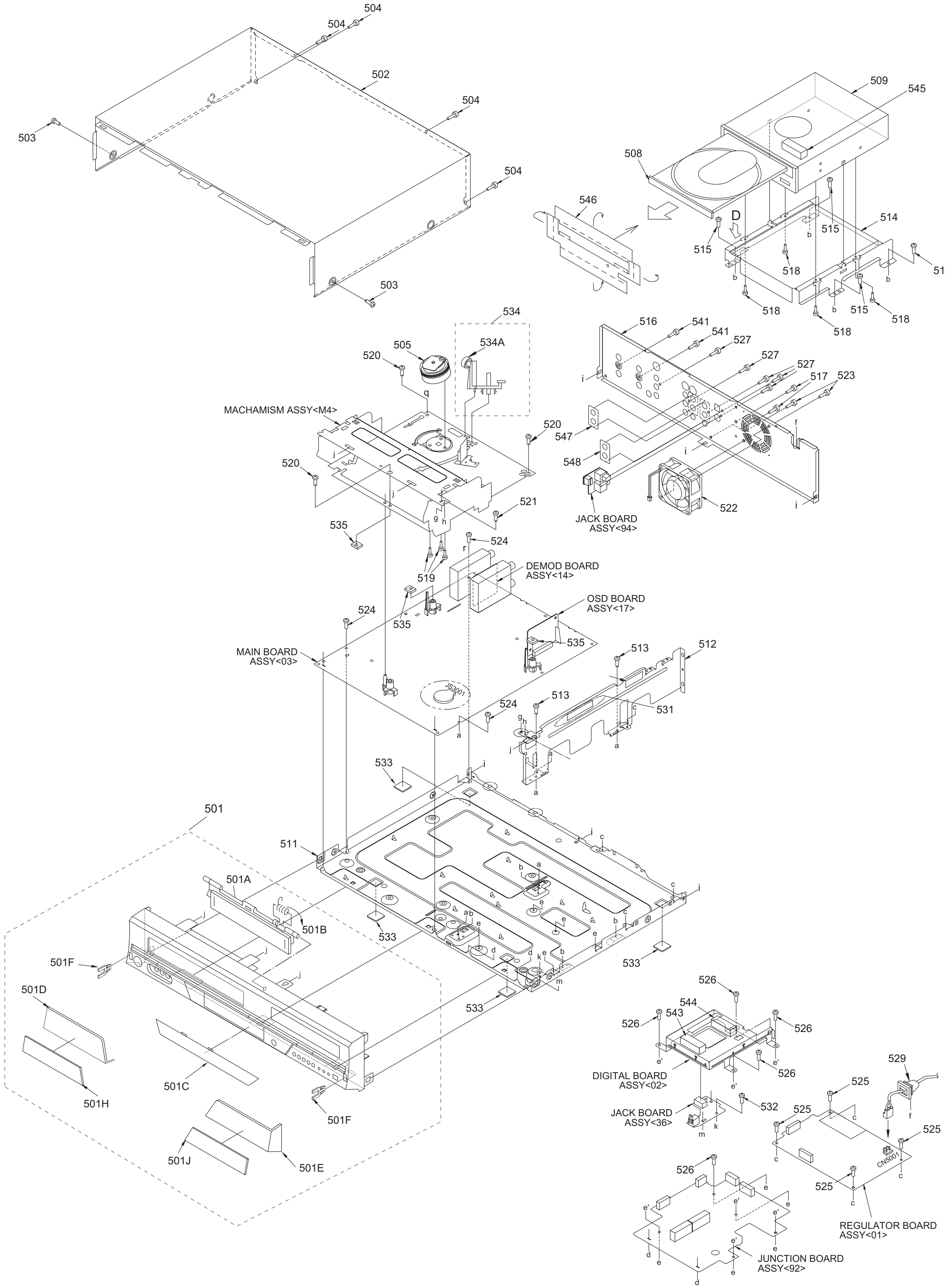
1. EXPLODED VIEW

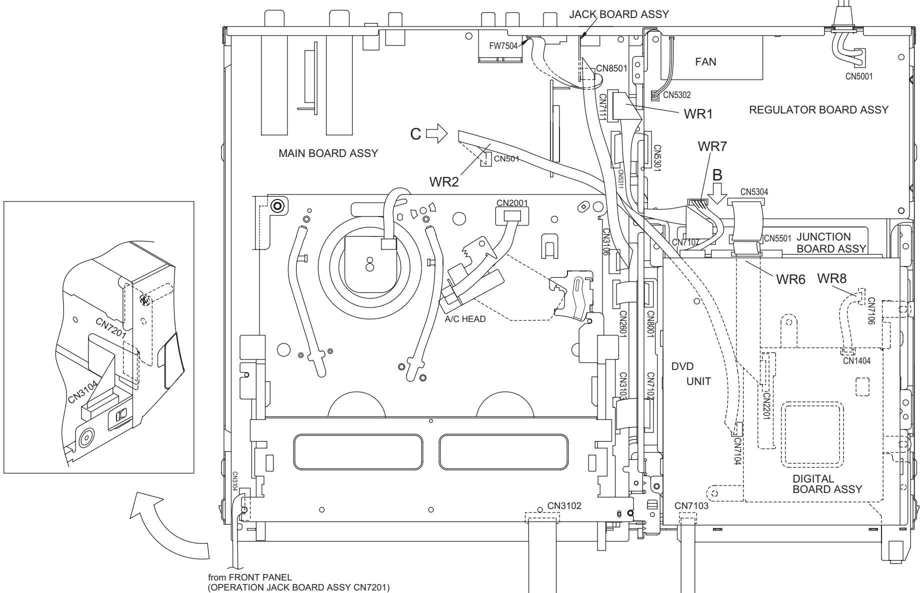
1.1 PACKING AND ACCESSORY ASSEMBLY <M1>

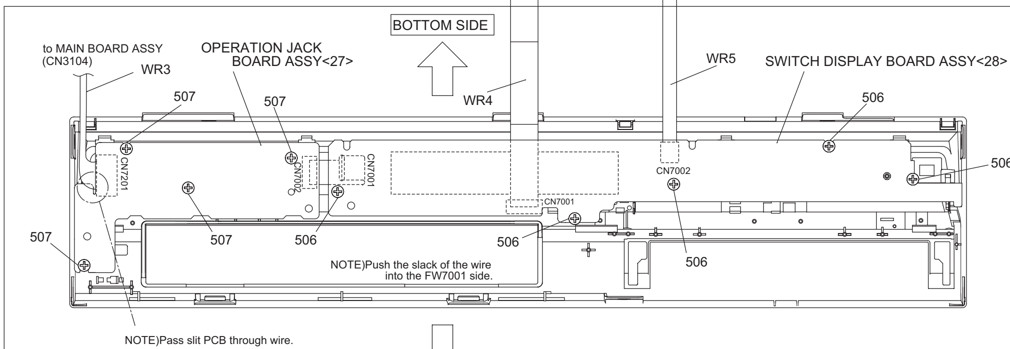
The instruction manual to be provided with this product will differ according to the destination.



1.2 FINAL ASSEMBLY <M2>

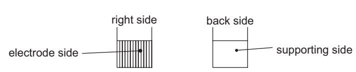




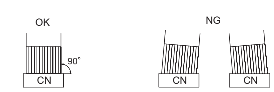


NOTE) INSERT FFC WIRE TO THE CONNECTOR BEFORE ATTACHING TO FRONT PANEL.

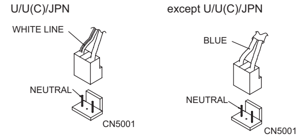
5. Insert direction of FCC WIRE as follows.



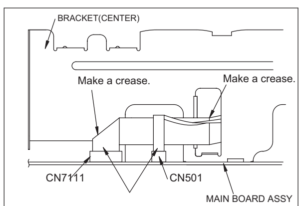
6. FFC WIRE and DRUM FPC WIRE should be insert as follows.



7. Insert direction of POWER CORD.

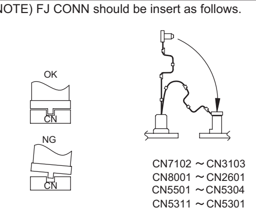


8. Insert the wire to even the root of connector completely at the same time as inserting each wire.



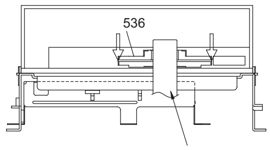
DRAWING FROM DIRECTION C

NOTE) FJ CONN should be insert as follows.



CN7102 ~ CN3103
CN8001 ~ CN2601
CN5501 ~ CN5304
CN5311 ~ CN5301

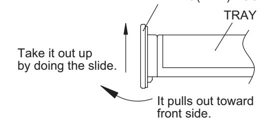
NOTE) Push both ends of connector when it is inserted to the DRIVE UNIT.

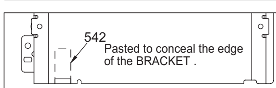


DRAWING FROM DIRECTION B

NOTE) Replace the attached FITING.

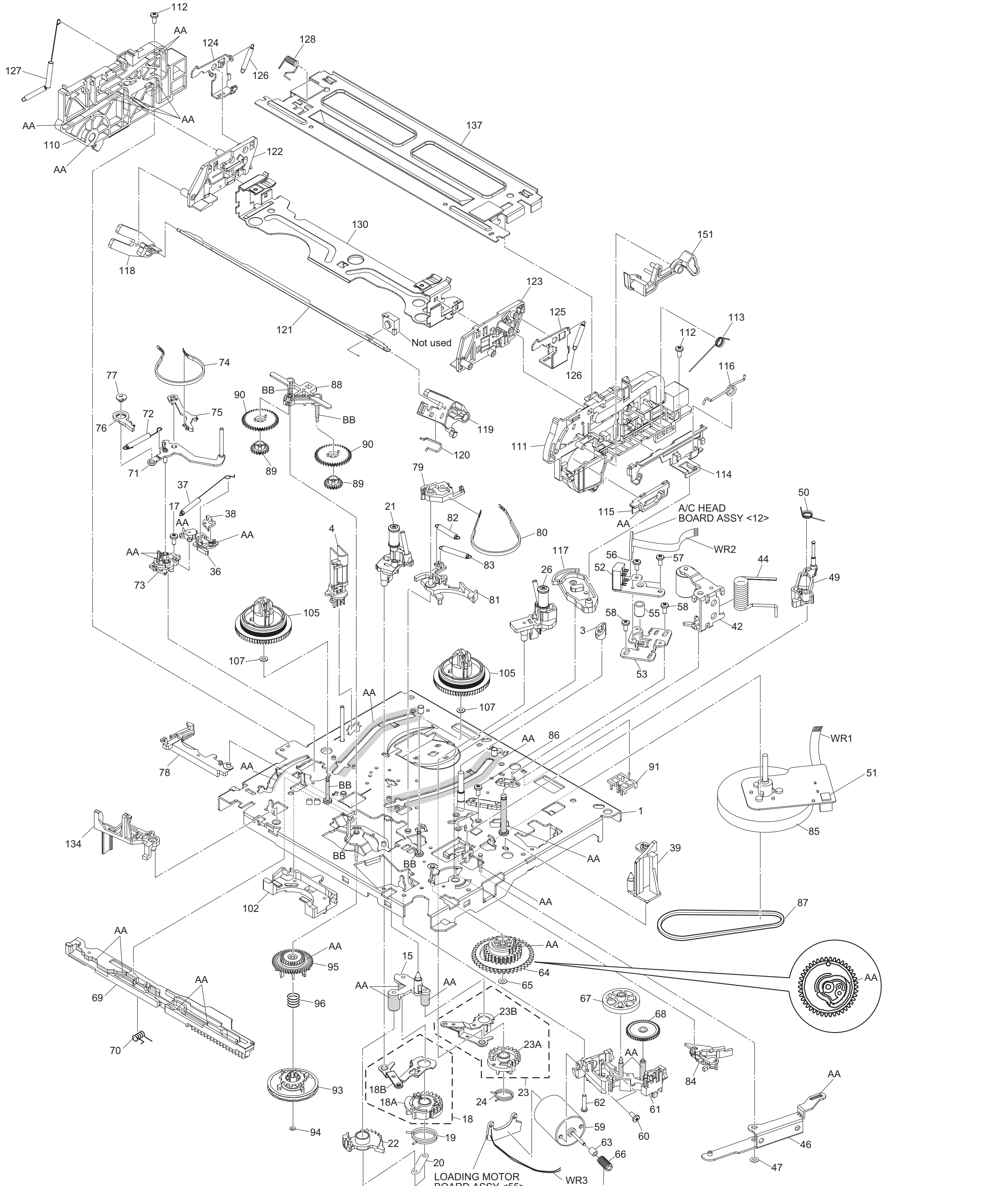
<HOW TO REMOVE>





DRAWING FROM DIRECTION D

1.3 MECHANISM ASSEMBLY <M4>



PMD0044A-C

Classification	Part No.	Symbol in drawing
Grease	KYODO-SH-JB	AA
Oil	COSMO-HV56	BB

NOTE: The section marked in **AA** and **BB** indicate lubrication and greasing areas.

MODEL	MARK
DR-MV1SUC	A
DR-MV1SUS	B

2. PARTS LIST

PACKING AND ACCESSORY ASSEMBLY <M1>

⚠ Symbol No.	Part No.	Part Name	Description	Local
301	LP31338-010A	PACKING CASE		
302	LP31340-001A	CUSHION ASSY		
303	PQM30021-105	POLY BAG		
304	LP31258-001A	MINI CUSHION		
306	RM-SDR013J	REMOCON		
307	------------	BATTERY	R6 TYPE(x2)	
308	QPC02202230P	POLY BAG	22cm x 22cm	
⚠ 310	LPT0952-001A	INST.BOOK	(ENGLISH)	A
⚠ 310	LPT0952-002A	INST.BOOK	(FRENCH)	A
⚠ 310	LPT0918-001A	INST.BOOK	(ENGLISH)	B
311	QPC02503530P	POLY BAG	25cm x 35cm	
312	QAM0501-003	RF CABLE		
314	QAM0523-003	RF CABLE	ANT. SPLITTER(x2)	B
315	QAU0361-001	ANT. SPLITTER		B
316	BT-52006-2	WARRANTY CARD		A
317	BT-51034-2	REGIST CARD		B
320	LP30666-005C	SHEET(COUPON)		

FINAL ASSEMBLY <M2>

⚠ Symbol No.	Part No.	Part Name	Description	Local
⚠ 501	LP10526-005A	FRONT PANEL ASSY		
501A	LP21232-002A	CASSETTE DOOR		
501B	PQ46448	TORSION SPRING		
501C	LP31358-003A	DISPLAY WINDOW		
501D	LP31353-001A	DOOR(L)		
501E	LP31354-001A	DOOR(R)		
501F	PU60109	CATCHER	(x2)	
501H	LP31356-005A	WINDOW(L)		
501J	LP31357-004A	WINDOW(R)		
⚠ 502	LP10460-004B	TOP COVER		
503	QYSBSG3006NA	TAP SCREW	M3 x 6mm TOP SIDE(x2)	
504	QYSBSG3006NA	TAP SCREW	M3 x 6mm TOP REAR(x4)	
505	PDV2531C	DRUM FINAL ASSY		
506	QYTDSF2608ZA	TAP SCREW	M2.6 x 8mm SWITCH DISPLAY(x5)	
507	QYTDSF2608ZA	TAP SCREW	M2.6 x 8mm OPERATION JACK(x4)	
508	LP31372-002A	FITTING(DVD) ASSY		
⚠ 509	QAL0551-001	DRIVE UNIT		
⚠ 511	LP10525-001D	BOTTOM CHASSIS		
512	LP21222-001B	BRACKET(CENTER)		
513	LP31391-001A	SPECIAL SCREW	BRACKET(CENTER)(x2)	
514	LP21223-001A	BRACKET(DVD UNIT)		
515	LP31391-001A	SPECIAL SCREW	BRACKET(DVD)(x4)	
⚠ 516	LP21134-012A	REAR COVER		
517	QYSBSG3006NA	TAP SCREW	M3 x 6mm REAR COVER(x2)	
518	QYTDST3006ZA	TAP SCREW	M3 x 6mm DVD UNIT(x4)	
519	QYSPSPD3008ZA	SCREW	M3 x 8mm DRUM(x3)	
520	LP31391-002A	SPECIAL SCREW	MECHANISM(x3)	
521	LP31391-001A	SPECIAL SCREW	HOUSING	
522	QAR0310-001	FAN MOTOR		
523	QYTDSF3008MA	TAP SCREW	M3 x 8mm FAN(x2)	
524	LP31391-001A	SPECIAL SCREW	MAIN(x3)	
525	LP31391-001A	SPECIAL SCREW	REGULATOR(x4)	
526	LP31391-001A	SPECIAL SCREW	JUNCTION(x5)	
527	QYTDSF3008MA	TAP SCREW	M3 x 8mm JACK(x5)	
⚠ 529	QMPD190-170-K	POWER CORD(JP)	1.7m BLACK	
531	LP31390-001A	BARCODE LABEL		
532	LP31391-001A	SPECIAL SCREW	JACK	
533	LP31348-001A	FOOT	(x4)	
534	LP40910-002G	HEAD CLEANER ASSY		
534A	PQ46419-2	CLEANER		
535	LP41140-001A	INSULATOR	(x3)	
536	QGZ0018A1-40	CONNECTOR	(1-40)	
541	QYTDST3005MA	TAP SCREW	M3 x 5mm TUNER(x2)	
542	LP30002-0F6A	SPACER		
543	LP41171-001A	SHIELD TIGHT		
544	LP41171-001A	SHIELD TIGHT		
545	LP41171-001A	SHIELD TIGHT		
546	LP31417-001A	SHIELD PLATE		

⚠ Symbol No.	Part No.	Part Name	Description	Local
547	LP31345-001A	EARTH PLATE		
548	LP31345-001A	EARTH PLATE		
WR1	QUQ112-1318CG	FFC WIRE	JUNCTION CN7107-MAIN CN7501	
WR2	QUQ212-0430CG	FFC WIRE	JUNCTION CN7104-MAIN CN501	
WR3	QUQ112-1308CG	FFC WIRE	OPERATION JACK CN7201-MAIN CN 3104	
WR4	WJT0151-001A	E-CARD WIRE	SWITCH DISPLAY CN7001-MAIN CN3102	
WR5	QUQ212-0410CG	FFC WIRE	JUNCTION CN7103-SWICH DISPLAY CN7002	
WR6	QUQ105-4020AF	FFC WIRE	DVD UNIT-DIGITAL CN2201	
WR7	QJJ032-040804	SIN CR C-C WIRE	REGULATOR CN5303-DVD UNIT	
WR8	QUQ210-0406CC	FFC WIRE	DIGITAL CN1404-JUNCTION CN7105	

MECHANISM ASSEMBLY <M4>

⚠ Symbol No.	Part No.	Part Name	Description	Local
1	LP21039-003A	MAIN DECK ASSY		
3	LP40097-002E	GUIDE POLE CAP		
4	NAH0004-001	FULL ERASE HEAD		
15	LP30958-001B	LOADING GEAR BASE		
16	QYTPST2620ZA	TAP SCREW	M2.6 x 20mm(x2)	
17	QYTDST2606ZA	TAP SCREW	M2.6 x 6mm	
18	LP40798-002A	LOADING GEAR(SUPPLY) ASSY		
18A	LP21040-001A	LOADING GEAR(SUPPLY)		
18B	LP40799-002A	LOADING ARM(SUPPLY) ASSY		
19	LP40837-001A	TORSION SPRING(SUPPLY)		
20	LP40903-004A	FIXING PLATE		
21	LP40806-001D	POLE BASE ASSY(SUPPLY)		
22	LP30959-001B	LOADING GEAR		
23	LP40802-002A	LOADING GEAR(TAKE UP) ASSY		
23A	LP21041-001D	LOADING GEAR(TAKE UP)		
23B	LP40803-002A	LOADING ARM(TAKE UP) ASSY		
24	LP40838-001A	TORSION SPRING(TAKE UP)		
26	LP40808-001E	POLE BASE ASSY(TAKE UP)		
36	LP21055-001G	TAKE UP LEVER		
37	LP40943-001A	TENSION SPRING		
38	LP40859-001D	T-UP HEAD		
39	LP30961-001C	LID GUIDE		
42	LP40810-003A	PINCH ROLLER ARM ASSY		
44	LP40840-001D	TORSION SPRING		
46	LP30963-002A	PRESS LEVER		
47	PQM30017-24	SLIT WASHER		
49	LP40813-001D	GUIDE ARM ASSY		
50	LP40841-001A	TORSION SPRING		
51	LP30002-090A	SPACER		
52	NAH0003-001	AC HEAD		
53	LP30965-003A	HEAD BASE		
55	LP40842-001D	COMPRESSION SPRING		
56	QYTDST2006MA	TAP SCREW	M2 x 6mm	
57	LP41036-002A	A/C ADJ.SCREW	(x2)	
58	QYTDST2606ZA	TAP SCREW	M2.6 x 6mm(x2)	
59	QAR0289-001	LOADING MOTOR		
60	QYTPSP3003ZA	SCREW	M3 x 3mm(x2)	
61	LP21056-002J	MOTOR BRACKET		
62	QYTPST2620ZA	TAP SCREW	M2.6 x 20mm	
63	LP40814-001B	WORM BEARING		
64	LP21044-001E	CONTROL CAM		
65	PQM30017-24	SLIT WASHER		
66	LP40815-001A	WORM GEAR		
67	LP40816-001B	HELICAL GEAR		
68	LP40817-001A	CONNECT GEAR		
69	LP10400-001N	CONTROL PLATE		
70	LP40843-001A	TORSION SPRING		
71	LP40818-002A	TENSION ARM ASSY		
72	LP40844-001F	TENSION SPRING		
73	LP21045-001E	TENSION ARM BASE		
74	LP40821-001A	TENSION BAND ASSY		
75	LP30967-001B	BAND HOLDER-1		
76	LP30968-001C	BAND HOLDER-2		
77	LP40822-002B	ADJUST PIN		
78	LP31000-005E	TENSION ARM LEVER		
79	LP21046-001C	MAIN BRAKE(TAKE UP)		
80	LP40824-001A	BAND BRAKE ASSY		
81	LP30969-002B	BRAKE LEVER		
82	LP30003-033B	TENSION SPRING		

MODEL	MARK
DR-MV1SUC	A
DR-MV1SUS	B

⚠ Symbol No.	Part No.	Part Name	Description	Local
83	LP30003-035B	TENSION SPRING		
84	LP40825-001B	CAPSTAN BRAKE ASSY		
⚠ 85	QAR0267-002	CAPSTAN MOTOR		
86	QYTPSG2606ZA	TAP SCREW	M2.6 x 6mm(x3)	
87	LP30005-010A	BELT	CAPSTAN MOTOR	
88	LP30970-001A	IDLER ARM		
89	LP40828-004A	IDLER GEAR 1	(x2)	
90	LP40829-002A	IDLER GEAR 2	(x2)	
91	LP31014-002A	WIRE HOLDER		
93	LP40934-001B	CLUTCH UNIT		
94	PQM30017-47	SLIT WASHER		
95	LP30973-001A	DIRECT GEAR		
96	LP40939-001A	COMPRESSION SPRING		
102	LP30974-001C	CHANGE LEVER		
105	LP21049-001A	REEL DISK	(x2)	
107	LP30017-004A	SPACER	REEL DISK(x2)	
110	LP10401-001L	SIDE FRAME(L)		
111	LP10402-001M	SIDE FRAME(R)		
112	QYTDST2606ZA	TAP SCREW	M2.6 x 6mm(x2)	
113	LP40917-001D	TORSION SPRING		
114	LP30976-002A	SIDE PLATE		
115	LP30977-002D	LIMIT PLATE		
116	LP40846-001C	LIMIT SPRING		
117	LP31100-002A	DRIVE LEVER		
118	LP30978-001B	DRIVE ARM(L)		
119	LP30979-001S	DRIVE ARM(R)		
120	LP40847-001B	TORSION SPRING		
121	LP30980-002A	CONNECT PLATE		
122	LP10403-001C	SIDE HOLDER(L)		
123	LP10404-001E	SIDE HOLDER(R)		
124	LP30983-002A	LOCK LEVER(L)		
125	LP30984-002A	LOCK LEVER(R)		
126	LP40924-001D	TENSION SPRING	(x2)	
127	LP40972-001A	EARTH SPRING(1)		
128	LP40857-001B	EARTH SPRING(2)		
130	LP30981-003A	CASSETTE HOLDER ASSY		
134	LP21051-002C	REC SAFETY LEVER		
137	LP21052-002A	TOP FRAME		
151	LP30985-002M	DOOR OPENER		
WR1	WJT0117-001A	E-CARD WIRE	DRUM	
WR2	WJT0067-001B	E-CARD WIRE	A/C HEAD CN2001	
WR3	WJS0022-001A	E-FL/RB WIRE	LOADING MOTOR	

REGULATOR BOARD ASSEMBLY <01>

⚠ Symbol No.	Part No.	Part Name	Description	Local
PW1	LPA10248-02C1	REGULATOR BOARD ASSY		
IC5101	STR-G6653-F9	IC		
IC5301	UTCTL431-T	IC		
IC5301 or	MM1431AT-T	IC		
IC5301 or	L5431-T	IC		
IC5301 or	TL431/A/-T	IC		
IC5302	PQ5EV3	IC		
Q5304	UMD12N-W	DIGI TRANSISTOR		
Q5304 or	XP4313-W	DIGI TRANSISTOR		
Q5305	2SD2144S/UV/-T	TRANSISTOR		
Q5305 or	2SC3576-JVC-T	TRANSISTOR		
Q5306	2SC5739/QP/	TRANSISTOR		
Q5307	2SA1585S/QR/-T	TRANSISTOR		
Q5308	PDTC114EU-X	DIGI TRANSISTOR		
Q5308 or	DTC114EUA-X	DIGI TRANSISTOR		
Q5308 or	UN5211-X	DIGI TRANSISTOR		
Q5308 or	RN1302-X	DIGI TRANSISTOR		
Q5313	2SA1585S/QR/-T	TRANSISTOR		
Q5314	2SA1585S/QR/-T	TRANSISTOR		
Q5315	PDTC114EU-X	DIGI TRANSISTOR		
Q5315 or	DTC114EUA-X	DIGI TRANSISTOR		
Q5315 or	UN5211-X	DIGI TRANSISTOR		
Q5315 or	RN1302-X	DIGI TRANSISTOR		
D5001	GBJ4J	BRIDGE DIODE		
D5001 or	D3SBA60	DIODE		
D5101	SARS01-T2	SI DIODE		
D5103	1F4G-T2	FR DIODE		
D5103 or	10ERB20-T2	FR DIODE		
D5103 or	ERA18-02-T2	FR DIODE		
D5103 or	AU01Z-T2	FR DIODE		
D5103 or	1SR153-400-T2	FR DIODE		
D5104	1SS133-T2	DIODE		
D5104 or	1SS270A-T2	SI DIODE		
D5105	10ERB20-T2	FR DIODE		
D5105 or	ERA18-02-T2	FR DIODE		
D5105 or	AU01Z-T2	FR DIODE		
D5105 or	1SR153-400-T2	FR DIODE		
D5105 or	1F4G-T2	FR DIODE		
D5106	10ERB20-T2	FR DIODE		
D5106 or	ERA18-02-T2	FR DIODE		
D5106 or	AU01Z-T2	FR DIODE		
D5106 or	1SR153-400-T2	FR DIODE		
D5106 or	1F4G-T2	FR DIODE		
D5202	1SR156-400-X	SI DIODE		
D5203	RL2Z-LFB2	FRD		
D5204	D1FS4A-X	SB DIODE		
D5205	RK34-LFB2	SB DIODE		
D5207	D1FS4A-X	SB DIODE		
D5208	RK34-LFB2	SB DIODE		
D5209	RK34-LFB2	SB DIODE		
D5210	1F4G-T2	FR DIODE		
D5210 or	PG104RS-T2	FR DIODE		
D5210 or	10ERB20-T2	FR DIODE		
D5210 or	1SR153-400-T2	FR DIODE		
D5210 or	ERA18-02-T2	FR DIODE		
D5211	ERA18-02-T2	FR DIODE		
D5211 or	1SR153-400-T2	FR DIODE		
D5211 or	10ERB20-T2	FR DIODE		
D5211 or	1F4G-T2	FR DIODE		
D5212	D1FS4A-X	SB DIODE		
D5213	1F4G-T2	FR DIODE		
D5213 or	10ERB20-T2	FR DIODE		
D5213 or	ERA18-02-T2	FR DIODE		
D5213 or	AU01Z-T2	FR DIODE		
D5213 or	1SR153-400-T2	FR DIODE		
D5301	MTZJ15A-T2	Z DIODE		
D5301 or	RD15ES/B1/-T2	Z DIODE		
D5303	MTZJ11C-T2	Z DIODE		
D5303 or	RD11ES/B3/-T2	Z DIODE		
D5304	MTZJ5.6C-T2	Z DIODE		
D5304 or	RD5.6ES/B3/-T2	Z DIODE		
D5306	RK34-LFB2	SB DIODE		
D5307	RK34-LFB2	SB DIODE		
D5308	RK34-LFB2	SB DIODE		
D5309	1S4-T2	SB DIODE		
D5309 or	SBO40-T2	SB DIODE		
D5309 or	AW04-T2	SB DIODE		
D5312	1SS133-T2	DIODE		
D5312 or	1SS270A-T2	SI DIODE		
D5313	1A3G-T2	SI DIODE		
D5313 or	ERA15-02-T2	SI DIODE		
D5313 or	10EDB20-T2	SI DIODE		
⚠ PC5101	PC123Y22FZ	PHOTO COUPLER		
⚠ C5001	QFZ9073-683	MM CAPACITOR	0.068uF AC250V M	
⚠ C5002	QFZ9051-223	MM CAPACITOR	0.022uF 250V M	
C5003	QEZ0639-337	E CAPACITOR	330uF 200V M	
⚠ C5004	QCZ9079-472	C CAPACITOR	4700pF AC250V M	
⚠ C5005	QCZ9071-101	C CAPACITOR	100pF AC400V K	
C5101	QCZ0339-101Z	C CAPACITOR	100pF 1kV K	
C5102	QCZ0349-472Z	C CAPACITOR	4700pF 1kV K	
C5103	QEMU1VM-276Z	E CAPACITOR	27uF 35V M	
C5104	QCZ0136-471Z	C CAPACITOR	470pF 1kV K	
C5105	QFLC1HJ-471Z	M CAPACITOR	470pF 50V J	
C5106	NCB21HK-103X	C CAPACITOR	0.01uF 50V K	
C5107	NCB21HK-221X	C CAPACITOR	220pF 50V K	
C5202	QETN2AM-475Z	E CAPACITOR	4.7uF 100V M	
C5203	QEMT1CM-687	E CAPACITOR	680uF 16V M	
C5204	QEMT1CM-687	E CAPACITOR	680uF 16V M	
C5205	QEMT1AM-128	E CAPACITOR	1200uF 10V M	
C5206	QECS1AM-128	E CAPACITOR	1200uF 10V M	

MODEL	MARK
DR-MV1SUC	A
DR-MV1SUS	B

⚠	Symbol No.	Part No.	Part Name	Description	Local
	C5207	QECS0JM-158	E CAPACITOR	1500uF 6.3V M	
	C5208	QEMT1AM-108	E CAPACITOR	1000uF 10V M	
	C5209	QEMU1HM-186Z	E CAPACITOR	18uF 50V M	
	C5210	QEMX0JM-227Z	E CAPACITOR	220uF 6.3V M	
	C5301	QFVF1HJ-154Z	MF CAPACITOR	0.15uF 50V J	
	C5302	QFLC1HJ-333Z	M CAPACITOR	0.033uF 50V J	
	C5303	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
	C5304	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
	C5305	QETN1AM-107Z	E CAPACITOR	100uF 10V M	
	C5306	QETN1AM-107Z	E CAPACITOR	100uF 10V M	
	C5307	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
	C5308	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
	C5310	QETN1HM-225Z	E CAPACITOR	2.2uF 50V M	
	C5311	QETN1AM-107Z	E CAPACITOR	100uF 10V M	
	C5312	QETN1AM-107Z	E CAPACITOR	100uF 10V M	
	C5313	NCB21HK-471X	C CAPACITOR	470pF 50V K	
	C5314	QETN1AM-107Z	E CAPACITOR	100uF 10V M	
	C5315	NCB21HK-103X	C CAPACITOR	0.01uF 50V K	
⚠	R5001	QRZ9046-475Z	C RESISTOR	4.7MΩ 1/2W K	
	R5101	QRG02GJ-683	OMF RESISTOR	68kΩ 2W J	
	R5102	NRSA02J-122X	MG RESISTOR	1.2kΩ 1/10W J	
	R5103	QRE141J-684Y	C RESISTOR	680kΩ 1/4W J	
	R5104	NRSA02J-102X	MG RESISTOR	1kΩ 1/10W J	
	R5105	QRE141J-680Y	C RESISTOR	68Ω 1/4W J	
	R5106	QRE141J-392Y	C RESISTOR	3.9kΩ 1/4W J	
	R5107	NRSA02J-681X	MG RESISTOR	680Ω 1/10W J	
	R5108	QRT01DJ-R33X	MF RESISTOR	0.33Ω 1W J	
⚠	R5109	QRZ9005-470X	FUSI RESISTOR	47Ω 1/4W G	
	R5301	NRSA02J-221X	MG RESISTOR	220Ω 1/10W J	
	R5302	NRSA02J-472X	MG RESISTOR	4.7kΩ 1/10W J	
	R5303	NRVA02D-152X	CMF RESISTOR	1.5kΩ 1/10W D	
	R5304	NRVA02D-682X	CMF RESISTOR	6.8kΩ 1/10W D	
	R5305	NRVA02D-243X	CMF RESISTOR	24kΩ 1/10W D	
	R5306	NRVA02D-392X	CMF RESISTOR	3.9kΩ 1/10W D	
	R5308	NRSA02J-122X	MG RESISTOR	1.2kΩ 1/10W J	
	R5309	NRSA02J-102X	MG RESISTOR	1kΩ 1/10W J	
	R5312	NRSA02J-103X	MG RESISTOR	10kΩ 1/10W J	
	R5313	NRSA02J-103X	MG RESISTOR	10kΩ 1/10W J	
	R5314	NRSA02J-471X	MG RESISTOR	470Ω 1/10W J	
	R5315	QRE121J-820Y	C RESISTOR	82Ω 1/2W J	
	R5316	NRSA02J-103X	MG RESISTOR	10kΩ 1/10W J	
	R5317	NRSA02J-102X	MG RESISTOR	1kΩ 1/10W J	
	R5318	NRVA02D-302X	CMF RESISTOR	3kΩ 1/10W D	
	R5319	NRVA02D-472X	CMF RESISTOR	4.7kΩ 1/10W D	
	R5325	QRE141J-8R2Y	C RESISTOR	8.2Ω 1/4W J	
⚠	R5326	QRZ9005-470X	FUSI RESISTOR	47Ω 1/4W G	
	R5327	NRSA02J-103X	MG RESISTOR	10kΩ 1/10W J	
	R5328	NRSA02J-471X	MG RESISTOR	470Ω 1/10W J	
	R5329	NRSA02J-103X	MG RESISTOR	10kΩ 1/10W J	
	R5330	NRSA02J-471X	MG RESISTOR	470Ω 1/10W J	
	L5201	PELN1184	CHOKE COIL		
	L5202	PELN1184	CHOKE COIL		
	L5204	PELN1184	CHOKE COIL		
	L5205	PELN1184	CHOKE COIL		
	L5206	PELN1184	CHOKE COIL		
	L5207	PELN1184	CHOKE COIL		
	L5301	QQR0678-001Z	FERRITE BEADS		
	L5302	QQR0678-001Z	FERRITE BEADS		
⚠	T5001	QQS0263-001	SW TRANSF		
	B5301	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
	B5305	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
⚠	CN5001	QGA7901C3-02	CONNECTOR	W-B (1-2)	
	CN5301	QGB1231L1-15	CONNECTOR	B-B (1-15)	
	CN5302	QGA2001C1-02	CONNECTOR	W-B (1-2)	
	CN5303	QGA2501C1-04	CONNECTOR	W-B (1-4)	
	CN5304	QGB1231L1-15	CONNECTOR	B-B (1-15)	
⚠	CP5301	QMFZ049-1R5Z-E	FUSE	1.5A 125V	
⚠	F5001	QMF51N2-1R6-J1	FUSE	1.6A AC250V	
	FC5001	QNG0020-001Z	FUSE CLIP		
	FC5002	QNG0020-001Z	FUSE CLIP		
⚠	LF5002	QQR0908-001	LINE FILTER		
⚠	VA5001	QAF0039-431Z	VARISTOR	430V	
	W5501	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	

DIGITAL BOARD ASSEMBLY <02>

⚠	Symbol No.	Part No.	Part Name	Description	Local
	PW1	LPA10236-05C	DIGITAL BOARD ASSY		
	IC1001	JCP8059	IC		
	IC1002	HY57V161610DTC7	IC		
	IC1002 or	K4S161622H-TC80	IC		
	IC1002 or	MT48LC1M16A1TG8	IC		
	IC1002 or	HY57V161610DTC8	IC		
	IC1002 or	MT48LC1M16TG-7S	IC		
	IC1201	MBPL65LM90TN	IC		
	IC1202	SN74LVC373APW-X	IC(DIGITAL)		
	IC1203	SN74LVC373APW-X	IC(DIGITAL)		
	IC1401	DMN8652-B0	IC(DIGITAL)		
	IC1404	SN74HCT08APW-X	IC		
	IC1405	SN74LV08APW-X	IC		
	IC1601	HY5DU561622CT-J	IC		
	IC1602	HY5DU561622CT-J	IC		
	IC1701	PQ015YZ01Z-X	IC		
	IC1801	TSB41AB2PAP	IC		
	Q1001	UN221E-X	TRANSTSTOR		
	Q1001 or	DTC144WKA-X	DIGI TRANSISTOR		
	Q1001 or	RT1N44HC-X	DIGI TRANSISTOR		
	Q1002	2SA1037AK/QR/-X	TRANSISTOR		
	Q1002 or	2SA1530A/QR/-X	TRANSISTOR		
	Q1002 or	2SB709A/QR/-X	TRANSISTOR		
	Q1003	2SA1037AK/QR/-X	TRANSISTOR		
	Q1003 or	2SA1530A/QR/-X	TRANSISTOR		
	Q1003 or	2SB709A/QR/-X	TRANSISTOR		
	Q1004	2SA1037AK/QR/-X	TRANSISTOR		
	Q1004 or	2SA1530A/QR/-X	TRANSISTOR		
	Q1004 or	2SB709A/QR/-X	TRANSISTOR		
	Q1005	2SA1037AK/QR/-X	TRANSISTOR		
	Q1005 or	2SA1530A/QR/-X	TRANSISTOR		
	Q1005 or	2SB709A/QR/-X	TRANSISTOR		
	Q1008	UMZ1N-W	PAIR TRANSISTOR		
	Q1008 or	BC847PN-X	PAIR TRANSISTOR		
	Q1008 or	BC846PN-X	PAIR TRANSISTOR		
	Q1009	2SC2412K/QRS/-X	TRANSISTOR		
	Q1009 or	2SC3928A/QRS/-X	TRANSISTOR		
	Q1009 or	2SD601A/QRS/-X	TRANSISTOR		
	Q1010	2SC2412K/QRS/-X	TRANSISTOR		
	Q1010 or	2SC3928A/QRS/-X	TRANSISTOR		
	Q1010 or	2SD601A/QRS/-X	TRANSISTOR		
	Q1011	2SC2412K/QRS/-X	TRANSISTOR		
	Q1011 or	2SC3928A/QRS/-X	TRANSISTOR		
	Q1011 or	2SD601A/QRS/-X	TRANSISTOR		
	D1001	1SS355-X	SI DIODE		
	D1001 or	MA111-X	SI DIODE		
	D1002	1SS355-X	SI DIODE		
	D1002 or	MA111-X	SI DIODE		
	D1401	1SS355-X	SI DIODE		
	D1401 or	MA111-X	SI DIODE		
	D1402	1SS355-X	SI DIODE		
	D1402 or	MA111-X	SI DIODE		
	D1403	1SS355-X	SI DIODE		
	D1403 or	MA111-X	SI DIODE		
	C1001	NBE20JM-226X	TA E CAPACITOR	22uF 6.3V M	
	C1002	NBE20JM-106X	TA E CAPACITOR	10uF 6.3V M	
	C1003	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
	C1004	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
	C1005	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
	C1007	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
	C1008	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
	C1009	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
	C1012	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
	C1014	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
	C1015	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
	C1017	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
	C1018	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
	C1019	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
	C1020	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
	C1026	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
	C1030	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
	C1032	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	

MODEL	MARK
DR-MV1SUC	A
DR-MV1SUS	B

⚠ Symbol No.	Part No.	Part Name	Description	Local
C1033	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1034	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1035	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1036	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1038	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1039	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1041	NBE20JM-106X	TA E CAPACITOR	10uF 6.3V M	
C1042	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1043	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1044	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1045	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1046	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1047	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1051	NBE20JM-106X	TA E CAPACITOR	10uF 6.3V M	
C1052	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1053	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C1054	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1055	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1056	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1057	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1059	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1060	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1061	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1065	NCB20JM-475X	C CAPACITOR	4.7uF 6.3V M	
C1077	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1089	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1090	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1091	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1092	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1093	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1094	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1095	NBE20JM-106X	TA E CAPACITOR	10uF 6.3V M	
C1096	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1097	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1098	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1203	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1204	NEH90JM-476X	E CAPACITOR	47uF 6.3V M	
C1206	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1207	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1401	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1402	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1403	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1404	NEHS0JM-107X	E CAPACITOR	100uF 6.3V M	
C1405	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1406	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1407	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1408	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1409	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1410	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1411	NEHS0JM-107X	E CAPACITOR	100uF 6.3V M	
C1412	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1413	NEHS0JM-107X	E CAPACITOR	100uF 6.3V M	
C1414	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1416	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1417	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1418	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1420	NBE20JM-106X	TA E CAPACITOR	10uF 6.3V M	
C1421	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1422	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1423	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1424	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1425	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1426	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1427	NBE20JM-106X	TA E CAPACITOR	10uF 6.3V M	
C1428	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1429	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1430	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1431	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1432	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1433	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1435	NBE20JM-106X	TA E CAPACITOR	10uF 6.3V M	
C1436	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1437	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1438	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1439	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1440	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1441	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1442	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1443	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1444	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1445	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1446	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1447	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1448	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C1449	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1450	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1452	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1453	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1455	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1457	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1458	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1601	NBAD0GM-227X	OS E CAPACITOR	220uF 2.5V M	
C1602	NBAD0GM-227X	OS E CAPACITOR	220uF 2.5V M	
C1605	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1606	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1607	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1608	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1609	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1610	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1611	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1612	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1613	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1614	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1615	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1616	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1617	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1618	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1619	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1620	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1621	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1622	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1623	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1624	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1625	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1638	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1640	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1642	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1644	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1646	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1648	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1650	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1652	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1654	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1656	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1658	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1701	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1702	NEHS0JM-107X	E CAPACITOR	100uF 6.3V M	
C1703	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1704	NEHS0JM-107X	E CAPACITOR	100uF 6.3V M	
C1706	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1707	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1708	NBE40JM-476X	TA E CAPACITOR	47uF 6.3V M	
C1710	NBE40JM-476X	TA E CAPACITOR	47uF 6.3V M	
C1801	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C1802	NDC31HJ-271X	C CAPACITOR	270pF 50V J	
C1803	NBE20JM-106X	TA E CAPACITOR	10uF 6.3V M	
C1804	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1805	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1806	NBE20JM-106X	TA E CAPACITOR	10uF 6.3V M	
C1807	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1808	NDC31HJ-120X	C CAPACITOR	12pF 50V J	
C1809	NDC31HJ-120X	C CAPACITOR	12pF 50V J	
C1811	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1812	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C2201	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C2202	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
R1001	NRSA63D-221X	MG RESISTOR	220Ω 1/16W D	
R1002	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R1003	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R1004	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R1005	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1006	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R1007	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1009	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1012	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	

MODEL	MARK
DR-MV1SUC	A
DR-MV1SUS	B

⚠ Symbol No.	Part No.	Part Name	Description	Local
R1013	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
R1014	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
R1015	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
R1017	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R1018	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R1019	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R1021	NRSA63D-332X	MG RESISTOR	3.3kΩ 1/16W D	
R1022	NRSA63D-152X	MG RESISTOR	1.5kΩ 1/16W D	
R1024	NRSA63D-272X	MG RESISTOR	2.7kΩ 1/16W D	
R1027	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J	
R1028	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J	
R1029	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R1030	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1031	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1032	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1033	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R1034	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1035	NQR0129-002X	FERRITE BEADS		
R1036	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R1037	NRSA63D-101X	MG RESISTOR	100Ω 1/16W D	
R1038	NQR0129-002X	FERRITE BEADS		
R1039	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R1040	NRSA63D-101X	MG RESISTOR	100Ω 1/16W D	
R1041	NQR0129-002X	FERRITE BEADS		
R1042	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R1043	NRSA63D-151X	MG RESISTOR	150Ω 1/16W D	
R1044	NQR0129-002X	FERRITE BEADS		
R1045	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R1046	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R1047	NRSA63D-221X	MG RESISTOR	220Ω 1/16W D	
R1050	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	
R1054	NRSA63D-332X	MG RESISTOR	3.3kΩ 1/16W D	
R1056	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R1057	NRSA63J-330X	MG RESISTOR	33Ω 1/16W J	
R1059	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R1060	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R1061	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R1065	NRSA63J-121X	MG RESISTOR	120Ω 1/16W J	
R1066	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1067	NRSA63J-121X	MG RESISTOR	120Ω 1/16W J	
R1068	NRSA63D-222X	MG RESISTOR	2.2kΩ 1/16W D	
R1069	NRSA63D-222X	MG RESISTOR	2.2kΩ 1/16W D	
R1070	NRSA63D-122X	MG RESISTOR	1.2kΩ 1/16W D	
R1071	NRSA63D-152X	MG RESISTOR	1.5kΩ 1/16W D	
R1072	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R1216	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1217	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1218	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1219	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1220	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1221	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1222	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R1223	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R1224	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R1225	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1226	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R1227	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1228	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1229	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R1230	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R1231	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R1401	NRSA63F-1181X	MG RESISTOR	1.18kΩ 1/16W F	
R1402	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R1408	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R1409	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1410	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1411	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1412	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1413	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1414	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R1415	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R1416	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R1417	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R1419	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1420	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1427	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1428	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1429	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	

⚠ Symbol No.	Part No.	Part Name	Description	Local
R1430	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1431	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1434	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1435	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1436	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1437	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R1438	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1439	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1440	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1441	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1443	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R1444	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R1445	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1446	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1447	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1448	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1449	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1450	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1451	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1452	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1453	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1458	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1459	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1460	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1461	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1462	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1465	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1466	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1467	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1468	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1469	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R1470	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R1471	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1472	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R1473	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1474	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1475	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1476	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1477	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1478	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1479	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1480	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R1481	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R1482	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R1491	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R1493	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R1496	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1497	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1498	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1601	NRSA63J-100X	MG RESISTOR	10Ω 1/16W J	
R1602	NRSA63J-100X	MG RESISTOR	10Ω 1/16W J	
R1603	NRSA63J-100X	MG RESISTOR	10Ω 1/16W J	
R1604	NRSA63J-100X	MG RESISTOR	10Ω 1/16W J	
R1605	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J	
R1606	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J	
R1607	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J	
R1608	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J	
R1613	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R1614	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R1615	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R1616	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R1617	NRSA63J-270X	MG RESISTOR	27Ω 1/16W J	
R1618	NRSA63J-270X	MG RESISTOR	27Ω 1/16W J	
R1619	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1620	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1621	NRSA63J-270X	MG RESISTOR	27Ω 1/16W J	
R1622	NRSA63J-270X	MG RESISTOR	27Ω 1/16W J	
R1623	NRSA63J-270X	MG RESISTOR	27Ω 1/16W J	
R1624	NRSA63J-270X	MG RESISTOR	27Ω 1/16W J	
R1625	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1626	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1627	NRSA63J-270X	MG RESISTOR	27Ω 1/16W J	
R1628	NRSA63J-270X	MG RESISTOR	27Ω 1/16W J	
R1642	NRSA63J-100X	MG RESISTOR	10Ω 1/16W J	
R1644	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J	
R1649	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1650	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1651	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	

MODEL	MARK
DR-MV1SUC	A
DR-MV1SUS	B

⚠ Symbol No.	Part No.	Part Name	Description	Local
R1652	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1653	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R1654	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R1655	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R1656	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R1657	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	
R1658	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	
R1659	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	
R1660	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	
R1701	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J	
R1702	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R1703	NRSA63D-222X	MG RESISTOR	2.2kΩ 1/16W D	
R1704	NRSA63D-222X	MG RESISTOR	2.2kΩ 1/16W D	
R1801	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R1802	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R1803	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1804	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1805	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R1807	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1809	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1810	NRSA63J-394X	MG RESISTOR	390kΩ 1/16W J	
R1812	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R1813	NRSA63J-560X	MG RESISTOR	56Ω 1/16W J	
R1814	NRSA63J-560X	MG RESISTOR	56Ω 1/16W J	
R1815	NRSA63J-560X	MG RESISTOR	56Ω 1/16W J	
R1816	NRSA63J-560X	MG RESISTOR	56Ω 1/16W J	
R1817	NRSA63J-512X	MG RESISTOR	5.1kΩ 1/16W J	
R1818	NRSA63D-562X	MG RESISTOR	5.6kΩ 1/16W D	
R1819	NRSA63D-751X	MG RESISTOR	750Ω 1/16W D	
R1820	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1821	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R1822	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R2201	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R2202	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R2203	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R2204	NRSA63J-330X	MG RESISTOR	33Ω 1/16W J	
R2205	NRSA63J-820X	MG RESISTOR	82Ω 1/16W J	
R2206	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	
R2207	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	
R2208	NRSA63J-820X	MG RESISTOR	82Ω 1/16W J	
R2209	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	
R2210	NRSA63J-820X	MG RESISTOR	82Ω 1/16W J	
R2211	NRSA63J-330X	MG RESISTOR	33Ω 1/16W J	
R2212	NRSA63J-330X	MG RESISTOR	33Ω 1/16W J	
R2213	NRSA63J-330X	MG RESISTOR	33Ω 1/16W J	
R2214	NRSA63J-330X	MG RESISTOR	33Ω 1/16W J	
R2215	NRSA63J-330X	MG RESISTOR	33Ω 1/16W J	
RA1001	NRZ0040-0R0X	NET RESISTOR	0Ω 1/16W J x4	
RA1002	NRZ0040-0R0X	NET RESISTOR	0Ω 1/16W J x4	
RA1003	NRZ0034-103W	NET RESISTOR	10kΩ 1/32W J	
RA1004	NRZ0034-103W	NET RESISTOR	10kΩ 1/32W J	
RA1005	NRZ0034-103W	NET RESISTOR	10kΩ 1/32W J	
RA1006	NRZ0034-103W	NET RESISTOR	10kΩ 1/32W J	
RA1201	NRZ0034-103W	NET RESISTOR	10kΩ 1/32W J	
RA1202	NRZ0034-103W	NET RESISTOR	10kΩ 1/32W J	
RA1203	NRZ0034-103W	NET RESISTOR	10kΩ 1/32W J	
RA1204	NRZ0034-103W	NET RESISTOR	10kΩ 1/32W J	
RA1401	NRZ0040-101X	NET RESISTOR	100Ω 1/16W J x4	
RA1402	NRZ0040-101X	NET RESISTOR	100Ω 1/16W J x4	
RA1403	NRZ0040-101X	NET RESISTOR	100Ω 1/16W J x4	
RA1404	NRZ0040-101X	NET RESISTOR	100Ω 1/16W J x4	
RA1405	NRZ0034-101W	NET RESISTOR	100Ω 1/32W J	
RA1406	NRZ0034-101W	NET RESISTOR	100Ω 1/32W J	
RA1407	NRZ0034-101W	NET RESISTOR	100Ω 1/32W J	
RA1408	NRZ0034-101W	NET RESISTOR	100Ω 1/32W J	
RA1409	NRZ0034-101W	NET RESISTOR	100Ω 1/32W J	
RA1410	NRZ0034-101W	NET RESISTOR	100Ω 1/32W J	
RA1411	NRZ0034-101W	NET RESISTOR	100Ω 1/32W J	
RA1601	NRZ0040-101X	NET RESISTOR	100Ω 1/16W J x4	
RA1602	NRZ0040-101X	NET RESISTOR	100Ω 1/16W J x4	
RA1603	NRZ0040-101X	NET RESISTOR	100Ω 1/16W J x4	
RA1604	NRZ0040-101X	NET RESISTOR	100Ω 1/16W J x4	
RA1605	NRZ0040-101X	NET RESISTOR	100Ω 1/16W J x4	
RA1606	NRZ0040-101X	NET RESISTOR	100Ω 1/16W J x4	
RA1607	NRZ0040-101X	NET RESISTOR	100Ω 1/16W J x4	
RA1608	NRZ0040-101X	NET RESISTOR	100Ω 1/16W J x4	
RA1609	NRZ0040-220X	NET RESISTOR	22Ω 1/16W J x4	
RA1610	NRZ0040-220X	NET RESISTOR	22Ω 1/16W J x4	

⚠ Symbol No.	Part No.	Part Name	Description	Local
RA1611	NRZ0040-220X	NET RESISTOR	22Ω 1/16W J x4	
RA1612	NRZ0040-220X	NET RESISTOR	22Ω 1/16W J x4	
RA1613	NRZ0040-220X	NET RESISTOR	22Ω 1/16W J x4	
RA1614	NRZ0040-220X	NET RESISTOR	22Ω 1/16W J x4	
RA1615	NRZ0040-220X	NET RESISTOR	22Ω 1/16W J x4	
RA1616	NRZ0040-220X	NET RESISTOR	22Ω 1/16W J x4	
RA1617	NRZ0040-101X	NET RESISTOR	100Ω 1/16W J x4	
RA1618	NRZ0040-101X	NET RESISTOR	100Ω 1/16W J x4	
RA1619	NRZ0040-101X	NET RESISTOR	100Ω 1/16W J x4	
RA1620	NRZ0040-101X	NET RESISTOR	100Ω 1/16W J x4	
RA1621	NRZ0040-101X	NET RESISTOR	100Ω 1/16W J x4	
RA1622	NRZ0040-101X	NET RESISTOR	100Ω 1/16W J x4	
RA1623	NRZ0040-101X	NET RESISTOR	100Ω 1/16W J x4	
RA1624	NRZ0040-101X	NET RESISTOR	100Ω 1/16W J x4	
RA1625	NRZ0040-100X	NET RESISTOR	10Ω 1/16W J x4	
RA1626	NRZ0040-100X	NET RESISTOR	10Ω 1/16W J x4	
RA1627	NRZ0040-100X	NET RESISTOR	10Ω 1/16W J x4	
RA1628	NRZ0040-100X	NET RESISTOR	10Ω 1/16W J x4	
RA1629	NRZ0040-470X	NET RESISTOR	47Ω 1/16W J x4	
RA1630	NRZ0040-470X	NET RESISTOR	47Ω 1/16W J x4	
RA1631	NRZ0040-470X	NET RESISTOR	47Ω 1/16W J x4	
RA1632	NRZ0040-470X	NET RESISTOR	47Ω 1/16W J x4	
RA1801	NRZ0034-103W	NET RESISTOR	10kΩ 1/32W J	
RA1802	NRZ0034-103W	NET RESISTOR	10kΩ 1/32W J	
RA2201	NRZ0040-0R0X	NET RESISTOR	0Ω 1/16W J x4	
RA2202	NRZ0040-0R0X	NET RESISTOR	0Ω 1/16W J x4	
RA2203	NRZ0040-0R0X	NET RESISTOR	0Ω 1/16W J x4	
RA2204	NRZ0040-0R0X	NET RESISTOR	0Ω 1/16W J x4	
RA2205	NRZ0040-0R0X	NET RESISTOR	0Ω 1/16W J x4	
RA2206	NRZ0040-0R0X	NET RESISTOR	0Ω 1/16W J x4	
RA2207	NRZ0040-0R0X	NET RESISTOR	0Ω 1/16W J x4	
RA2208	NRZ0040-330X	NET RESISTOR	33Ω 1/16W J x4	
RA2209	NRZ0040-330X	NET RESISTOR	33Ω 1/16W J x4	
RA2210	NRZ0040-330X	NET RESISTOR	33Ω 1/16W J x4	
RA2211	NRZ0040-330X	NET RESISTOR	33Ω 1/16W J x4	
L1004	NQL144K-100X	P COIL	0.30Ω 10uH K	
L1801	NQL144K-100X	P COIL	0.30Ω 10uH K	
T1801	NQR0444-001X	CHOKE COIL		
B1001	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
B1007	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
B1008	NQR0339-001X	FERRITE BEADS		
B1204	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
B1208	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
B1802	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
CN1001	QGB2027L6-28X	CONNECTOR	B-B (1-28)	
CN1002	QGB2027L6-28X	CONNECTOR	B-B (1-28)	
CN1202	QGF0508F1-36X	CONNECTOR	FFC/FPC (1-36)	
CN1403	QGF1016C2-04W	CONNECTOR	FFC/FPC (1-4)	
CN1404	QGF1016F2-04W	CONNECTOR	FFC/FPC (1-4)	
CN1801	QGB2027L1-10X	CONNECTOR	B-B (1-10)	
CN2201	QGF0539C1-40W	CONNECTOR	FFC/FPC (1-40)	
K1001	NQR0339-001X	FERRITE BEADS		
K1002	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
K1003	NQR0129-002X	FERRITE BEADS		
K1004	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
K1005	NQR0129-002X	FERRITE BEADS		
K1006	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
K1007	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
K1008	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
K1009	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
K1010	NQR0129-002X	FERRITE BEADS		
K1011	NQR0129-002X	FERRITE BEADS		
K1012	NQR0129-002X	FERRITE BEADS		
K1013	NQR0129-002X	FERRITE BEADS		
K1014	NQR0129-002X	FERRITE BEADS		
K1015	NQR0129-002X	FERRITE BEADS		
K1016	NQR0129-002X	FERRITE BEADS		
K1017	NQR0129-002X	FERRITE BEADS		
K1018	NQR0129-002X	FERRITE BEADS		
K1019	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
K1020	NQR0129-002X	FERRITE BEADS		
K1201	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
K1401	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
K1402	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
K1403	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
K1404	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	

MODEL	MARK
DR-MV1SUC	A
DR-MV1SUS	B

⚠ Symbol No.	Part No.	Part Name	Description	Local
K1406	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
K1407	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
K1408	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
K1701	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
K1702	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
K1801	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
K2201	NQR0129-002X	FERRITE BEADS		
K2202	NQR0129-002X	FERRITE BEADS		
K2203	NQR0129-002X	FERRITE BEADS		
K2204	NQR0129-002X	FERRITE BEADS		
K2205	NQR0129-002X	FERRITE BEADS		
K2206	NQR0129-002X	FERRITE BEADS		
K2207	NQR0129-002X	FERRITE BEADS		
K2208	NQR0129-002X	FERRITE BEADS		
K2209	NQR0129-002X	FERRITE BEADS		
K2210	NQR0129-002X	FERRITE BEADS		
K2211	NQR0129-002X	FERRITE BEADS		
K2212	NQR0129-002X	FERRITE BEADS		
K2213	NQR0129-002X	FERRITE BEADS		
K2214	NQR0129-002X	FERRITE BEADS		
K2215	NQR0129-002X	FERRITE BEADS		
K2216	NQR0129-002X	FERRITE BEADS		
K2217	NQR0129-002X	FERRITE BEADS		
K2218	NQR0129-002X	FERRITE BEADS		
K2219	NQR0129-002X	FERRITE BEADS		
K2220	NQR0129-002X	FERRITE BEADS		
K2221	NQR0129-002X	FERRITE BEADS		
LC1401	NQR0415-002X	EMI FILTER	1uF 16V Z	
LC1402	NQR0415-002X	EMI FILTER	1uF 16V Z	
LC1403	NQR0415-002X	EMI FILTER	1uF 16V Z	
OT1	LC41656-001A	COOLING SHEET		
SD1	LP21293-001A	SHIELD FRAME(DIGITAL)		
X1401	NAX0580-001X	CXO	27.0000MHz	
X1801	NAX0666-001X	CRYSTAL	24.576000MHz	

MAIN BOARD ASSEMBLY <03>

⚠ Symbol No.	Part No.	Part Name	Description	Local
PW1	LPA10238-03B	MAIN BOARD ASSY		A
PW1	LPA10238-01B	MAIN BOARD ASSY		B
IC1	JCP8060-NVA	IC		
IC501	JCP8038-I	IC		
IC501	or JCP8038	IC		
⚠ IC2201	AN3663FBP	IC		
IC2602	BU4052BCF-X	IC		
IC2602	or CD4052BM-X	IC		
IC2603	BA15218F-XE	IC		
IC2604	BU4052BCF-X	IC		
IC2604	or CD4052BM-X	IC		
IC2605	BA15218F-XE	IC		
IC3001	HD6432194SAD72F	IC(MCU)		
IC3001	or HD64F2194CFD72	IC(MCU)		
IC3002	IC-PST3427U-X	IC		
IC3003	LPN0878-003A-02	IC(EEPROM)	*(REFER TO BELOW)	A
IC3003	LPN0878-001C-02	IC(EEPROM)	*(REFER TO BELOW)	B
IC3003	or CAT24WC08JI-X	IC		
IC3003	or BR24C08F-X	IC		
IC3003	or X24C08S-X	IC		
IC3601	BU2090FS-X	IC		
IC7502	74HC4053D-X	IC		
Q503	2SC4081/QRS/-X	TRANSISTOR		
Q503	or 2PC4081/R/-X	TRANSISTOR		
Q503	or 2SD1819A/QRS/-X	TRANSISTOR		
Q503	or 2SC4154/EF/-X	TRANSISTOR		
Q504	2SA1576A/QR/-X	TRANSISTOR		
Q504	or 2PA1576/R/-X	TRANSISTOR		
Q504	or 2SB1218A/QR/-X	TRANSISTOR		
Q504	or 2SA1602A/E/-X	TRANSISTOR		
Q505	2SA1576A/QR/-X	TRANSISTOR		
Q505	or 2PA1576/R/-X	TRANSISTOR		
Q505	or 2SB1218A/QR/-X	TRANSISTOR		
Q505	or 2SA1602A/E/-X	TRANSISTOR		
Q506	2SA1576A/QR/-X	TRANSISTOR		
Q506	or 2PA1576/R/-X	TRANSISTOR		
Q506	or 2SB1218A/QR/-X	TRANSISTOR		
Q506	or 2SA1602A/E/-X	TRANSISTOR		
Q2001	2SC4081/QRS/-X	TRANSISTOR		
Q2001	or 2SD1819A/QRS/-X	TRANSISTOR		
Q2001	or 2PC4081/R/-X	TRANSISTOR		
Q2001	or 2SC4154/EF/-X	TRANSISTOR		
Q2002	2SC4081/QRS/-X	TRANSISTOR		
Q2002	or 2SD1819A/QRS/-X	TRANSISTOR		
Q2002	or 2PC4081/R/-X	TRANSISTOR		
Q2002	or 2SC4154/EF/-X	TRANSISTOR		
Q2003	DTA144WUA-X	DIGI TRANSISTOR		
Q2003	or UN511E-X	DIGI TRANSISTOR		
Q2003	or PDTA144WU-X	DIGI TRANSISTOR		
Q2003	or RN2309-X	DIGI TRANSISTOR		
Q2003	or RT1P44HM-X	DIGI TRANSISTOR		
Q2051	2SC4081/QRS/-X	TRANSISTOR		
Q2051	or 2SD1819A/QRS/-X	TRANSISTOR		
Q2051	or 2PC4081/R/-X	TRANSISTOR		
Q2051	or 2SC4154/EF/-X	TRANSISTOR		
Q2052	2SA1576A/QR/-X	TRANSISTOR		
Q2052	or 2SB1218A/QR/-X	TRANSISTOR		
Q2052	or 2PA1576/R/-X	TRANSISTOR		
Q2053	DTC144WUA-X	DIGI TRANSISTOR		
Q2053	or PDTC144WU-X	DIGI TRANSISTOR		
Q2053	or UN521E-X	DIGI TRANSISTOR		
Q2053	or RN1309-X	DIGI TRANSISTOR		
Q2053	or RT1N44HM-X	DIGI TRANSISTOR		
Q2054	2SA1576A/QR/-X	TRANSISTOR		
Q2054	or 2SB1218A/QR/-X	TRANSISTOR		
Q2054	or 2PA1576/R/-X	TRANSISTOR		
Q2055	DTC144WUA-X	DIGI TRANSISTOR		
Q2055	or PDTC144WU-X	DIGI TRANSISTOR		
Q2055	or UN521E-X	DIGI TRANSISTOR		
Q2055	or RN1309-X	DIGI TRANSISTOR		
Q2055	or RT1N44HM-X	DIGI TRANSISTOR		
Q2201	DTA144WUA-X	DIGI TRANSISTOR		
Q2201	or PDTA144WU-X	DIGI TRANSISTOR		
Q2201	or UN511E-X	DIGI TRANSISTOR		
Q2201	or RN2309-X	DIGI TRANSISTOR		
Q2201	or RT1P44HM-X	DIGI TRANSISTOR		
Q2202	DTC144WUA-X	DIGI TRANSISTOR		
Q2202	or PDTC144WU-X	DIGI TRANSISTOR		
Q2202	or UN521E-X	DIGI TRANSISTOR		
Q2202	or RN1309-X	DIGI TRANSISTOR		
Q2202	or RT1N44HM-X	DIGI TRANSISTOR		
Q2203	2SC4081/QRS/-X	TRANSISTOR		
Q2203	or 2PC4081/R/-X	TRANSISTOR		
Q2203	or 2SD1819A/QRS/-X	TRANSISTOR		
Q2203	or 2SC4154/EF/-X	TRANSISTOR		
Q2204	2SC4081/QRS/-X	TRANSISTOR		
Q2204	or 2PC4081/R/-X	TRANSISTOR		
Q2204	or 2SD1819A/QRS/-X	TRANSISTOR		
Q2204	or 2SC4154/EF/-X	TRANSISTOR		
Q2601	2SC4081/QRS/-X	TRANSISTOR		
Q2601	or 2PC4081/R/-X	TRANSISTOR		
Q2601	or 2SD1819A/QRS/-X	TRANSISTOR		
Q2601	or 2SC4154/EF/-X	TRANSISTOR		
Q2602	2SC4081/QRS/-X	TRANSISTOR		
Q2602	or 2PC4081/R/-X	TRANSISTOR		
Q2602	or 2SD1819A/QRS/-X	TRANSISTOR		
Q2602	or 2SC4154/EF/-X	TRANSISTOR		
Q2603	DTA144WUA-X	DIGI TRANSISTOR		
Q2603	or PDTA144WU-X	DIGI TRANSISTOR		
Q2603	or UN511E-X	DIGI TRANSISTOR		
Q2603	or RN2309-X	DIGI TRANSISTOR		
Q2603	or RT1P44HM-X	DIGI TRANSISTOR		
Q3002	PTZ-NV16A	IC(PHOTO SENSOR		
Q3003	PTZ-NV16A	IC(PHOTO SENSOR		
Q3004	2SD1819A/QRS/-X	TRANSISTOR		
Q3004	or 2SC4081/QRS/-X	TRANSISTOR		
Q3004	or 2PC4081/R/-X	TRANSISTOR		
Q3005	2SD1819A/QRS/-X	TRANSISTOR		
Q3005	or 2SC4081/QRS/-X	TRANSISTOR		
Q3005	or 2PC4081/R/-X	TRANSISTOR		
Q3011	DTC143EUA-X	DIGI TRANSISTOR		
Q3011	or UN521L-X	DIGI TRANSISTOR		

*The VCR goes to jig RCU mode after replacing the EEPROM and the VCR does not accept some RCU command.
Therefore please set the VCR to the user RCU mode after replacing the EEPROM.
The method of setting the VCR to the user RCU mode is written on the service manual.

MODEL	MARK
DR-MV1SUC	A
DR-MV1SUS	B

⚠ Symbol No.		Part No.	Part Name	Description	Local
Q3011	or	PDTC143EU-X	DIGI TRANSISTOR		
Q3011	or	RN1301-X	TRANSISTOR		
Q4001		UN5211-X	DIGI TRANSISTOR		
Q4001	or	DTC114EUA-X	DIGI TRANSISTOR		
Q4001	or	RN1302-X	DIGI TRANSISTOR		
Q6030		2SB1218A/QR/-X	TRANSISTOR		
Q6030	or	2SA1576A/QR/-X	TRANSISTOR		
Q6030	or	2PA1576/R/-X	TRANSISTOR		
Q6130		2SB1218A/QR/-X	TRANSISTOR		
Q6130	or	2SA1576A/QR/-X	TRANSISTOR		
Q6130	or	2PA1576/R/-X	TRANSISTOR		
Q7201		2SC1317/RS/-T	TRANSISTOR		
Q7501		2SB1218A/QR/-X	TRANSISTOR		
Q7501	or	2SA1576A/QR/-X	TRANSISTOR		
Q7501	or	2PA1576/R/-X	TRANSISTOR		
Q7573		2SB1218A/QR/-X	TRANSISTOR		
Q7573	or	2SA1576A/QR/-X	TRANSISTOR		
Q7573	or	2PA1576/R/-X	TRANSISTOR		
D501		DA204U-X	SI DIODE		
D502		DA204U-X	SI DIODE		
D2001		1SS133-T2	DIODE		
D2001	or	1SS270A-T2	SI DIODE		
D2251		1SS133-T2	DIODE		
D2251	or	1SS270A-T2	SI DIODE		
D2601		1SS133-T2	DIODE		
D2601	or	1SS270A-T2	SI DIODE		
D3001		LNB2301L01VI	LED		
D3002		1SS133-T2	DIODE		
D3002	or	1SS270A-T2	SI DIODE		
D3003		RD39ES/B3/-T2	Z DIODE		
D3003	or	MTZJ39C-T2	Z DIODE		
D3004		1A3G-T2	SI DIODE		
D3005		1A3G-T2	SI DIODE		
D4002		NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
D6002		HZ30-2L-T2	Z DIODE		
D6002	or	HZ30-2LTD	Z DIODE		
PC3001		RPI-304J	IC(PHOTO SENSOR)		
PC3002		RPI-304J	IC(PHOTO SENSOR)		
C1		NDC31HJ-151X	C CAPACITOR	150pF 50V J	
C2		NDC31HJ-330X	C CAPACITOR	33pF 50V J	
C4		QEKJ1EM-106Z	E CAPACITOR	10uF 25V M	
C5		NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C6		NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C7		NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C8		NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
C9		QEKJ1HM-225Z	E CAPACITOR	2.2uF 50V M	
C10		QEKJ0JM-476Z	E CAPACITOR	47uF 6.3V M	
C11		NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
C12		NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
C13		NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
C14		NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
C15		NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C17		NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C19		NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C20		NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C22		NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C24		NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C25		QEKJ1HM-335Z	E CAPACITOR	3.3uF 50V M	
C26		QEKJ1EM-106Z	E CAPACITOR	10uF 25V M	
C27		NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C28		NDC31HJ-470X	C CAPACITOR	47pF 50V J	
C29		NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C30		QCBB1HK-331Y	C CAPACITOR	330pF 50V K	
C31		QEKJ0JM-476Z	E CAPACITOR	47uF 6.3V M	
C32		NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C33		QEKJ1EM-106Z	E CAPACITOR	10uF 25V M	
C34		NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C35		QCBB1HK-103Y	C CAPACITOR	0.01uF 50V K	
C36		QEKJ1HM-105Z	E CAPACITOR	1uF 50V M	
C37		NDC31HJ-4R0X	C CAPACITOR	4pF 50V J	
C38		NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C39		QEKJ0JM-476Z	E CAPACITOR	47uF 6.3V M	
C40		NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C41		NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C43		QEKJ1HM-335Z	E CAPACITOR	3.3uF 50V M	

⚠ Symbol No.	Part No.	Part Name	Description	Local
C44	QEKJ1HM-225Z	E CAPACITOR	2.2uF 50V M	
C45	NCB31EK-472X	C CAPACITOR	4700pF 25V K	
C46	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C47	QEKJ1HM-474Z	E CAPACITOR	0.47uF 50V M	
C48	NCB31EK-223X	C CAPACITOR	0.022uF 25V K	
C49	QEKJ1HM-475Z	E CAPACITOR	4.7uF 50V M	
C56	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C57	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z	
C58	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z	
C59	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z	
C60	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z	
C61	QEKC0JM-476Z	E CAPACITOR	47uF 6.3V M	
C62	QCBB1HK-103Y	C CAPACITOR	0.01uF 50V K	
C501	QEKJ0JM-476Z	E CAPACITOR	47uF 6.3V M	
C502	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C503	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
C505	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C506	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C508	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
C510	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C512	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C513	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
C515	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C516	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C518	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
C519	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
C521	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C522	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C523	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C524	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C525	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C526	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C527	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
C528	QEKJ1CM-106Z	E CAPACITOR	10uF 16V M	
C529	QEKJ0JM-476Z	E CAPACITOR	47uF 6.3V M	
C530	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C533	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C534	QEKJ1HM-475Z	E CAPACITOR	4.7uF 50V M	
C535	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C536	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C537	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C538	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C539	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C540	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C541	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C543	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C545	QEKJ1HM-225Z	E CAPACITOR	2.2uF 50V M	
C546	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C547	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C549	NDC31HJ-120X	C CAPACITOR	12pF 50V J	
C550	NDC31HJ-820X	C CAPACITOR	82pF 50V J	
C555	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C556	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C565	QEKJ0JM-476Z	E CAPACITOR	47uF 6.3V M	
C577	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C578	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C2001	QEKJ1HM-475Z	E CAPACITOR	4.7uF 50V M	
C2002	QEKJ1HM-105Z	E CAPACITOR	1uF 50V M	
C2003	QEKJ0JM-476Z	E CAPACITOR	47uF 6.3V M	
C2004	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C2005	QEKJ1HM-475Z	E CAPACITOR	4.7uF 50V M	
C2006	NCB31EK-682X	C CAPACITOR	6800pF 25V K	
C2007	QEKJ1CM-226Z	E CAPACITOR	22uF 16V M	
C2008	QEKJ1HM-475Z	E CAPACITOR	4.7uF 50V M	
C2009	NCB31HK-821X	C CAPACITOR	820pF 50V K	
C2010	NCB31HK-821X	C CAPACITOR	820pF 50V K	
C2011	QEKJ1HM-475Z	E CAPACITOR	4.7uF 50V M	
C2012	QEKJ1HM-475Z	E CAPACITOR	4.7uF 50V M	
C2051	NDC31HJ-331X	C CAPACITOR	330pF 50V J	
C2052	QFV61HJ-823Z	MF CAPACITOR	0.082uF 50V J	
C2053	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
C2054	NCB31EK-223X	C CAPACITOR	0.022uF 25V K	
C2055	QEKJ1EM-106Z	E CAPACITOR	10uF 25V M	
C2201	QEKJ1EM-106Z	E CAPACITOR	10uF 25V M	
C2202	QEKJ1HM-475Z	E CAPACITOR	4.7uF 50V M	
C2203	QEKJ1HM-475Z	E CAPACITOR	4.7uF 50V M	
C2204	QEKJ0JM-336Z	E CAPACITOR	33uF 6.3V M	
C2205	QEKJ1EM-106Z	E CAPACITOR	10uF 25V M	

MODEL	MARK
DR-MV1SUC	A
DR-MV1SUS	B

⚠ Symbol No.	Part No.	Part Name	Description	Local
C2206	QEKJ1EM-106Z	E CAPACITOR	10uF 25V M	
C2207	NCB31EK-153X	C CAPACITOR	0.015uF 25V K	
C2208	NCB31EK-153X	C CAPACITOR	0.015uF 25V K	
C2209	QEKJ1EM-106Z	E CAPACITOR	10uF 25V M	
C2210	QEKJ1EM-106Z	E CAPACITOR	10uF 25V M	
C2211	QEKJ0JM-336Z	E CAPACITOR	33uF 6.3V M	
C2212	QEKJ0JM-476Z	E CAPACITOR	47uF 6.3V M	
C2214	QEKJ1EM-106Z	E CAPACITOR	10uF 25V M	
C2215	QEKJ1EM-106Z	E CAPACITOR	10uF 25V M	
C2216	QEKC1CM-476Z	E CAPACITOR	47uF 16V M	
C2219	QEKJ1CM-226Z	E CAPACITOR	22uF 16V M	
C2220	QEKJ1EM-106Z	E CAPACITOR	10uF 25V M	
C2221	NCB31EK-223X	C CAPACITOR	0.022uF 25V K	
C2222	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C2234	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C2235	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C2251	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C2252	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C2253	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C2254	QEKJ0JM-476Z	E CAPACITOR	47uF 6.3V M	
C2255	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C2256	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C2257	QCBB1HK-103Y	C CAPACITOR	0.01uF 50V K	
C2259	QEKJ1HM-334Z	E CAPACITOR	0.33uF 50V M	
C2603	QEKJ1EM-106Z	E CAPACITOR	10uF 25V M	
C2604	QEKJ1EM-106Z	E CAPACITOR	10uF 25V M	
C2651	QEKJ1CM-476Z	E CAPACITOR	47uF 16V M	
C2653	QEKJ1CM-476Z	E CAPACITOR	47uF 16V M	
C3004	NCB31EK-473X	C CAPACITOR	0.047uF 25V K	
C3012	QEKJ0JM-476Z	E CAPACITOR	47uF 6.3V M	
C3015	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C3016	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C3022	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C3024	NDC31HJ-220X	C CAPACITOR	22pF 50V J	
C3025	QAT3725-300Z	TRIM CAPACITOR	30pF TIMER CLOCK	
C3027	QERF1CM-106Z	E CAPACITOR	10uF 16V M	
C3030	QERF1CM-476Z	E CAPACITOR	47uF 16V M	
C3031	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C3032	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C3033	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C3036	NDC31HJ-180X	C CAPACITOR	18pF 50V J	
C3037	NDC31HJ-120X	C CAPACITOR	12pF 50V J	
C3042	QETJ0JM-477Z	E CAPACITOR	470uF 6.3V M	
C3050	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C3054	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C3071	QEKJ1HM-336Z	E CAPACITOR	33uF 50V M	
C3602	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C4002	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C4004	NBE20JM-226X	TA E CAPACITOR	22uF 6.3V M	
C4005	NCB31HK-222X	C CAPACITOR	2200pF 50V K	
C4006	NBE40JM-476X	TA E CAPACITOR	47uF 6.3V M	
C4008	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C4009	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
C4010	NCB31EK-223X	C CAPACITOR	0.022uF 25V K	
C4011	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C4012	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C4014	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C4015	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C4018	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C4031	QEKJ1CM-336Z	E CAPACITOR	33uF 16V M	
C6013	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C6021	NDC31HJ-331X	C CAPACITOR	330pF 50V J	
C6501	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C6502	QEKJ1EM-106Z	E CAPACITOR	10uF 25V M	
C6503	QEKJ1HM-105Z	E CAPACITOR	1uF 50V M	
C6504	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C6505	QEKJ1HM-335Z	E CAPACITOR	3.3uF 50V M	
C6508	NCB31CK-223X	C CAPACITOR	0.022uF 16V K	
C6509	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C6512	NCB31EK-223X	C CAPACITOR	0.022uF 25V K	
C6513	QEKJ1HM-225Z	E CAPACITOR	2.2uF 50V M	
C6514	NCB31EK-223X	C CAPACITOR	0.022uF 25V K	
C6515	QEKJ1HM-335Z	E CAPACITOR	3.3uF 50V M	
C6516	QEKJ1HM-475Z	E CAPACITOR	4.7uF 50V M	
C6517	NCB31AK-224X	C CAPACITOR	0.22uF 10V K	
C6532	QCBB1HK-104Y	C CAPACITOR	0.1uF 50V K	
C7201	QEKJ0JM-227Z	E CAPACITOR	220uF 6.3V M	
C7501	QEKJ0JM-476Z	E CAPACITOR	47uF 6.3V M	
C7502	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C7517	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C7518	QETN0JM-477Z	E CAPACITOR	470uF 6.3V M	
C7519	QETN0JM-477Z	E CAPACITOR	470uF 6.3V M	
C7520	QETN0JM-477Z	E CAPACITOR	470uF 6.3V M	
C7521	QETN0JM-477Z	E CAPACITOR	470uF 6.3V M	
C7529	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C7538	QETJ0JM-477Z	E CAPACITOR	470uF 6.3V M	
C7539	QETN0JM-477Z	E CAPACITOR	470uF 6.3V M	
C7553	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C7575	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C7576	QEKJ1CM-107Z	E CAPACITOR	100uF 16V M	
C7581	NCB31HK-221X	C CAPACITOR	220pF 50V K	
C7582	NCB31HK-221X	C CAPACITOR	220pF 50V K	
C7585	NCB31HK-221X	C CAPACITOR	220pF 50V K	
C7586	NCB31HK-221X	C CAPACITOR	220pF 50V K	
C7587	NCB31HK-221X	C CAPACITOR	220pF 50V K	
C7588	NCB31HK-221X	C CAPACITOR	220pF 50V K	
R1	NRSA63J-622X	MG RESISTOR	6.2kΩ 1/16W J	
R2	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	
R3	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J	
R11	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R12	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R19	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
R36	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J	
R37	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R38	NRSA63J-475X	MG RESISTOR	4.7MΩ 1/16W J	
R501	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R502	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R503	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R504	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R507	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R508	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R509	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R510	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R511	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R512	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R518	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J	
R521	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J	
R526	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R527	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R528	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R529	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R533	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R534	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R535	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	
R542	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R545	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R546	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R547	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R551	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R2007	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J	
R2010	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J	
R2013	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J	
R2014	NRSA63J-394X	MG RESISTOR	390kΩ 1/16W J	
R2015	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R2016	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	
R2017	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R2018	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R2019	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R2021	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	
R2022	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R2023	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R2024	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R2053	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	
R2054	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J	
R2055	NRSA63J-3R3X	MG RESISTOR	3.3Ω 1/16W J	
R2056	QRE141J-820Y	C RESISTOR	82Ω 1/4W J	
R2057	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R2058	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J	
R2059	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R2060	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J	
R2201	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R2202	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	
R2203	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R2204	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	
R2205	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	

MODEL	MARK
DR-MV1SUC	A
DR-MV1SUS	B

⚠ Symbol No.	Part No.	Part Name	Description	Local
R2206	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	
R2207	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R2208	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	
R2209	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R2210	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R2211	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R2212	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R2213	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R2214	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R2215	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R2218	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J	
R2219	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R2220	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R2226	NRSA63J-393X	MG RESISTOR	39kΩ 1/16W J	
R2227	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	
R2228	NRSA63J-393X	MG RESISTOR	39kΩ 1/16W J	
R2229	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	
R2230	QRE141J-471Y	C RESISTOR	470Ω 1/4W J	
R2231	QRE141J-471Y	C RESISTOR	470Ω 1/4W J	
R2251	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R2252	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R2253	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R2257	NRSA63J-684X	MG RESISTOR	680kΩ 1/16W J	
R2259	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	
R2609	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R2610	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R2611	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R2631	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R2632	QRE141J-471Y	C RESISTOR	470Ω 1/4W J	
R2633	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R2634	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R2635	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R2636	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R2637	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R2638	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R2651	QRE141J-221Y	C RESISTOR	220Ω 1/4W J	
R2652	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R2653	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R2654	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R2658	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R2659	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R2660	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R2661	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R2662	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R2663	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R2666	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R2667	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R3011	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3012	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3013	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R3014	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3015	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3016	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R3017	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R3018	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3021	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3022	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3025	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3026	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3027	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R3029	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R3032	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R3033	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3035	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3036	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R3037	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3038	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J	
R3039	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3040	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3041	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3042	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3044	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3046	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3047	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3048	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3049	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3050	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3051	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R3052	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R3053	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R3054	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R3055	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R3056	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3057	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R3058	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3059	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R3060	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R3061	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R3062	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R3063	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R3066	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R3069	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R3071	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R3072	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3074	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3075	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R3076	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R3078	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R3079	QRE141J-471Y	C RESISTOR	470Ω 1/4W J	
R3080	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R3083	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R3085	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R3088	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3089	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3090	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3091	QRE141J-102Y	C RESISTOR	1kΩ 1/4W J	
R3092	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R3094	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R3095	QRE141J-102Y	C RESISTOR	1kΩ 1/4W J	
R3097	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3104	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R3106	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R3205	QRE141J-181Y	C RESISTOR	180Ω 1/4W J	
R3206	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J	
R3207	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J	
R3208	NRSA63J-121X	MG RESISTOR	120Ω 1/16W J	
R3209	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J	
R3210	NRSA63J-121X	MG RESISTOR	120Ω 1/16W J	
R3211	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J	
R3212	QRE141J-474Y	C RESISTOR	470kΩ 1/4W J	
R3213	NRSA63J-334X	MG RESISTOR	330kΩ 1/16W J	
R3214	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R3215	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R3216	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R3217	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R3218	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R3219	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R3220	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R3222	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R3223	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R3224	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R3229	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J	
R3230	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R3231	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R3235	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R3236	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R3237	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R3241	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R3253	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R3257	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R3258	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R3259	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3260	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R3261	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R3262	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R3263	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R3264	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R3265	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R3601	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R3608	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R3612	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R4003	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J	
R4004	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J	
R4005	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R4007	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R4008	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	

MODEL	MARK
DR-MV1SUC	A
DR-MV1SUS	B

⚠ Symbol No.	Part No.	Part Name	Description	Local
R4009	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R4010	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R4012	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R4013	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R4015	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R4017	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R6020	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R6021	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R6030	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R6031	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R6050	QRE141J-101Y	C RESISTOR	100Ω 1/4W J	
R6051	NQR0129-003X	FERRITE BEADS		
R6054	NQR0129-003X	FERRITE BEADS		
R6120	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R6121	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R6130	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R6131	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R6502	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R7202	QRE141J-221Y	C RESISTOR	220Ω 1/4W J	
R7203	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R7204	QRE121J-100Y	C RESISTOR	10Ω 1/2W J	
R7501	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R7502	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R7522	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R7523	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R7528	NRSA63J-560X	MG RESISTOR	56Ω 1/16W J	
R7529	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J	
R7538	NRSA63D-560X	MG RESISTOR	56Ω 1/16W D	
R7539	NRSA63D-560X	MG RESISTOR	56Ω 1/16W D	
R7540	NRSA63D-560X	MG RESISTOR	56Ω 1/16W D	
R7541	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R7542	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R7543	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R7544	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R7561	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R7562	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R7563	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R7564	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R7565	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R7566	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R7575	QRE123J-271X	C RESISTOR	270Ω 1/2W J	
R7576	QRE141J-101Y	C RESISTOR	100Ω 1/4W J	
R7593	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
L3	QQL29BJ-100Z	P COIL	0.40Ω 10uH J	
L5	QQL29BJ-100Z	P COIL	0.40Ω 10uH J	
⚠ L6	QQL29BJ-100Z	P COIL	0.40Ω 10uH J	
L7	QQL071J-120Y	COIL	1.50Ω 12uH J	
⚠ L10	QQL29BJ-100Z	P COIL	0.40Ω 10uH J	
L501	QQL29BJ-100Z	P COIL	0.40Ω 10uH J	
L502	QQL29BJ-100Z	P COIL	0.40Ω 10uH J	
L504	QQL231J-330Y	COIL	4.70Ω 33uH J	
L2251	QQL29BJ-100Z	P COIL	0.40Ω 10uH J	
L3001	QQL231J-R22Y	COIL	0.40Ω 0.22uH J	
L4001	QQL29BK-1R0Z	P COIL	0.14Ω 1uH K	
L6003	QQL29BK-1R0Z	P COIL	0.14Ω 1uH K	
L6103	QQL29BK-1R0Z	P COIL	0.14Ω 1uH K	
L7201	QQL29BJ-100Z	P COIL	0.40Ω 10uH J	
L7501	QQL29BJ-100Z	P COIL	0.40Ω 10uH J	
L7502	QQL29BJ-100Z	P COIL	0.40Ω 10uH J	
T2051	PELN0832	OSC TRANS		
B1	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
B4	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
B10	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
B2603	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
B2604	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
B3001	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
B3022	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
B6021	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
B6024	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
B7503	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
B7504	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
B7505	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
B7509	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
B7511	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
B7512	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
B7513	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	

⚠ Symbol No.	Part No.	Part Name	Description	Local
B7514	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
B7515	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
B7516	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
B7591	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
B7592	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
CN1	QGF1201C2-09	CONNECTOR	FFC/FPC (1-9)	
CN501	QGF1207C1-04	CONNECTOR	FFC/FPC (1-4)	
CN2001	QGF1207C1-06	CONNECTOR	FFC/FPC (1-6)	
CN2002	QGB2532J1-02	CONNECTOR	B-B (1-2)	
CN2601	QGB1231L1-11	CONNECTOR	B-B (1-11)	
CN3001	QGB2032M4-12	CONNECTOR	B-B (1-12)	
CN3102	QGF1207C1-11	CONNECTOR	FFC/FPC (1-11)	
CN3103	QGB1231L1-15	CONNECTOR	B-B (1-15)	
CN3104	QGF1207C1-13	CONNECTOR	FFC/FPC (1-13)	
CN5311	QGB1231M1-15	CONNECTOR	B-B (1-15)	
CN7501	QGF1207C1-13	CONNECTOR	FFC/FPC (1-13)	
CN7503	QGF1207C1-11	CONNECTOR	FFC/FPC (1-11)	
⚠ CP3002	QMFZ050-1R25X-E	FUSE	1.25A 125V	
⚠ CP4002	QMFZ050-1R25X-E	FUSE	1.25A 125V	
FW7504	QUM023-12A4A4	PARA RIBON WIRE		
J7501	QNZ0609-001	AV JACK	DVD/VCR IN/OUT	
J7502	QNN0587-001	PIN JACK	DVD/VCR OUT PUT	
J7503	QNN0587-002	PIN JACK	COMPONENT VIDEO OUT	
J7506	QNS0100-001	3.5 JACK	CABLE BOX	
JS3001	QSW0954-003	ROTARY ENCODER		
K2251	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
K2252	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
K6050	NQR0129-003X	FERRITE BEADS		
OT1	LP31378-001A	BOSS(MECHA)3		
OT2	LP31379-001A	BOSS(MECHA)4	(x2)	
S3001	QSW0602-004	PUSH SWITCH	REC SAFETY	
SD1	LP31179-001A	SHILD PLATE(PRE/REC)		
TU6001	QAU0336-001	TUNER		
TU6002	QAU0336-001	TUNER		
W1	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W2	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W3	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W4	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W5	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W6	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W7	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W9	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W10	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W12	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W13	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W14	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W15	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W16	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W17	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W18	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W21	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W22	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W23	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W24	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W25	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W26	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W27	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W28	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W29	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W31	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W32	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W33	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W35	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W37	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W38	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W39	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W40	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W41	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W42	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W43	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W44	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W46	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W47	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W48	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
WR1	QUQ112-1112CG	FFC WIRE		
X2	QAX0739-001	CRYSTAL	3.57MHz	
X3001	QAX0444-001	CRYSTAL	32.768kHz	
X3002	QAX0527-001	CRYSTAL	10.000000MHz	

MODEL	MARK
DR-MV1SUC	A
DR-MV1SUS	B

A/C HEAD BOARD ASSEMBLY <12>

⚠ Symbol No.	Part No.	Part Name	Description	Local
PW1	LPA10158-01A1	A/C HEAD BOARD ASSY		

DEMOD BOARD ASSEMBLY <14>

⚠ Symbol No.	Part No.	Part Name	Description	Local
PW1	LPA10243-01C1	DEMOD BOARD ASSY		
IC2301	BA3308	IC		
IC6501	AN5832SA-W	IC		
C2301	QEKJ1EM-106Z	E CAPACITOR	10uF 25V M	
C2302	QEKJ1EM-106Z	E CAPACITOR	10uF 25V M	
C2303	QEKJ1EM-106Z	E CAPACITOR	10uF 25V M	
C2304	QEKJ1EM-106Z	E CAPACITOR	10uF 25V M	
C2305	QEKJ1CM-476Z	E CAPACITOR	47uF 16V M	
C6501	QEKJ1EM-106Z	E CAPACITOR	10uF 25V M	
C6502	QEKJ1HM-334Z	E CAPACITOR	0.33uF 50V M	
C6503	QEKJ1HM-335Z	E CAPACITOR	3.3uF 50V M	
C6504	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C6506	NCB31HK-223X	C CAPACITOR	0.022uF 50V K	
C6507	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C6508	NCB31CK-333X	C CAPACITOR	0.033uF 16V K	
C6509	QEKJ1HM-225Z	E CAPACITOR	2.2uF 50V M	
C6510	QEKJ1HM-334Z	E CAPACITOR	0.33uF 50V M	
C6511	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C6512	NCB31CK-224X	C CAPACITOR	0.22uF 16V K	
C6514	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C6515	QEKJ1EM-475Z	E CAPACITOR	4.7uF 25V M	
C6516	QEKJ1HM-225Z	E CAPACITOR	2.2uF 50V M	
C6519	QEKJ1CM-476Z	E CAPACITOR	47uF 16V M	
C6520	QEKJ1HM-225Z	E CAPACITOR	2.2uF 50V M	
C6521	QEKJ1EM-106Z	E CAPACITOR	10uF 25V M	
C6522	QEKJ1EM-106Z	E CAPACITOR	10uF 25V M	
C6523	QEKJ1HM-225Z	E CAPACITOR	2.2uF 50V M	
R2301	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J	
R2302	NRSA63J-181X	MG RESISTOR	180Ω 1/16W J	
R2303	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J	
R2304	NRSA63J-181X	MG RESISTOR	180Ω 1/16W J	
R2305	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R2306	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R2307	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R2308	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J	
R2309	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R2310	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R2311	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R2312	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J	
R6501	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R6503	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R6504	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R6505	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R6508	NRSA63J-184X	MG RESISTOR	180kΩ 1/16W J	
R6509	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R6510	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R6511	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R6512	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
BK1	LP40425-001A	BRACKET(BOARD ASSY)		
CN2301	QGF1207F1-11	CONNECTOR	FFC/FPC (1-11)	
CN6701	QGG2502K1-09	CONNECTOR	(1-9)	
W1	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W2	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W3	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W4	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W5	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W6	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	

OSD BOARD ASSEMBLY <17>

⚠ Symbol No.	Part No.	Part Name	Description	Local
PW1	LPA10243-01C3	OSD BOARD ASSY		
IC201	LC74785N-9762	IC (OSD)		
D201	1SS133-T2	DIODE		
D202	1SS133-T2	DIODE		
D203	1SS133-T2	DIODE		
D204	1SS133-T2	DIODE		
C201	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C202	NCB21CK-105X	C CAPACITOR	1uF 16V K	
C203	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C204	QEKJ1HM-105Z	E CAPACITOR	1uF 50V M	
C208	NDC31HJ-680X	C CAPACITOR	68pF 50V J	
C209	QEKJ0JM-337Z	E CAPACITOR	330uF 6.3V M	
C211	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C212	NDC31HJ-330X	C CAPACITOR	33pF 50V J	
C213	NDC31HJ-330X	C CAPACITOR	33pF 50V J	
C219	NCB31CK-224X	C CAPACITOR	0.22uF 16V K	
C220	NCB31CK-224X	C CAPACITOR	0.22uF 16V K	
R202	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R203	QRE141J-102Y	C RESISTOR	1kΩ 1/4W J	
R207	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R208	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R209	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R210	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R211	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R212	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R216	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R217	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R218	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
L201	QQL29BK-1R0Z	P COIL	0.14Ω 1uH K	
L206	QQL29BJ-220Z	P COIL	0.65Ω 22uH J	
B201	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
B203	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
B205	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
BK1	LP40425-001A	BRACKET(BOARD ASSY)		
CN201	QGG2502K1-14	CONNECTOR	(1-14)	
W101	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W102	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
W103	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	

OPERATION JACK BOARD ASSEMBLY <27>

⚠ Symbol No.	Part No.	Part Name	Description	Local
PW1	LPA10248-02C5	OPERATION JACK BOARD ASSY		
D7204	RD6.8ES/B1/-T2	Z DIODE		
D7204	or MTZJ6.8A-T2	Z DIODE		
D7221	SLA-580BC3T3F	LED		
D7221	or SLA-580BCT3F	LED		
D7221	or SDPB50A0/DEGH/	LED		
D7222	SLR-325VC-T	LED		
D7222	or LTL-816EE-T	LED		
D7223	SLR-325MC-T	LED		
D7223	or LTL-816GE-T	LED		
D7223	or SLR-343MC-T	LED		
D7224	SLR-325VC-T	LED		
D7224	or LTL-816EE-T	LED		
C7206	NCB21HK-103X	C CAPACITOR	0.01uF 50V K	
C7221	QCBB1HK-103Y	C CAPACITOR	0.01uF 50V K	
R7202	QRE141J-750Y	C RESISTOR	75Ω 1/4W J	
R7206	NRSA02J-750X	MG RESISTOR	75Ω 1/10W J	
R7207	NRSA02J-750X	MG RESISTOR	75Ω 1/10W J	
R7221	QRE141J-101Y	C RESISTOR	100Ω 1/4W J	
R7222	NRSA02J-331X	MG RESISTOR	330Ω 1/10W J	
R7223	NRSA02J-331X	MG RESISTOR	330Ω 1/10W J	

MODEL	MARK
DR-MV1SUC	A
DR-MV1SUS	B

⚠ Symbol No.	Part No.	Part Name	Description	Local
R7224	NRSA02J-331X	MG RESISTOR	330Ω 1/10W J	
R7225	QRE141J-103Y	C RESISTOR	10kΩ 1/4W J	
CN7201	QGF1209F1-13	CONNECTOR	FFC/FPC (1-13)	
CN7202	QGD2503C1-05	CONNECTOR	(1-5)	
J7201	QNN0591-001	PIN JACK	FRONT AV	
J7204	QND0084-001	S JACK	FRONT S-VIDEO	
S7216	QSW0381-001Z	TACT SWITCH	VCR_EJECT	
S7217	QSW0381-001Z	TACT SWITCH	VCR/DVD	
S7218	QSW0381-001Z	TACT SWITCH	POWER	
W71	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
W72	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	

SWITCH DISPLAY BOARD ASSEMBLY <28>

⚠ Symbol No.	Part No.	Part Name	Description	Local
PW1	LPA10248-02C4	SWITCH DISPLAY BOARD ASSY		
IC7001	UPD16315GB-3BS	IC		
IC7001 or	PT6315	IC		
IC7002	GP1UM281XK	IR DETECT UNIT	38kHz	
IC7002 or	PNA4652M00XB	IR DETECT UNIT		
D7001	1SS133-T2	DIODE		
D7001 or	1SS270A-T2	SI DIODE		
D7002	1SS133-T2	DIODE		
D7002 or	1SS270A-T2	SI DIODE		
D7003	1SS133-T2	DIODE		
D7003 or	1SS270A-T2	SI DIODE		
D7004	1SS133-T2	DIODE		
D7004 or	1SS270A-T2	SI DIODE		
D7005	1SS133-T2	DIODE		
D7005 or	1SS270A-T2	SI DIODE		
D7012	1SS133-T2	DIODE		
D7012 or	1SS270A-T2	SI DIODE		
D7013	1SS133-T2	DIODE		
D7013 or	1SS270A-T2	SI DIODE		
D7014	1SS133-T2	DIODE		
D7014 or	1SS270A-T2	SI DIODE		
D7015	1SS133-T2	DIODE		
D7015 or	1SS270A-T2	SI DIODE		
D7021	RD9.1ES/B2/-T2	Z DIODE		
D7021 or	MTZJ9.1B-T2	Z DIODE		
D7041	SLR-325VC-T	LED		
D7041 or	LTL-816EE-T	LED		
D7042	SLR-325MC-T	LED		
D7042 or	LTL-816GE-T	LED		
D7042 or	SLR-343MC-T	LED		
D7043	SLR-325VC-T	LED		
D7043 or	LTL-816EE-T	LED		
D7044	SLR-325MC-T	LED		
D7044 or	LTL-816GE-T	LED		
D7044 or	SLR-343MC-T	LED		
D7045	SLA-580BC3T3F	LED		
D7045 or	SLA-580BCT3F	LED		
D7045 or	SDPB50A0/DEGH/	LED		
D7046	SLR-325VC-T	LED		
D7046 or	LTL-816EE-T	LED		
D7047	SLR-325MC-T	LED		
D7047 or	LTL-816GE-T	LED		
D7047 or	SLR-343MC-T	LED		
C7001	NCB21EK-104X	C CAPACITOR	0.1uF 25V K	
C7002	QCFB1HZ-104Y	C CAPACITOR	0.1uF 50V Z	
C7003	QEKJ1HM-106Z	E CAPACITOR	10uF 50V M	
C7006	QEKC0JM-227Z	E CAPACITOR	220uF 6.3V M	
C7008	QERF1AM-227Z	E CAPACITOR	220uF 10V M	
C7010	NCF31HZ-473X	C CAPACITOR	0.047uF 50V Z	
C7011	NCF31HZ-473X	C CAPACITOR	0.047uF 50V Z	
C7013	QCBB1HK-103Y	C CAPACITOR	0.01uF 50V K	
R7001	QRE141J-103Y	C RESISTOR	10kΩ 1/4W J	
R7002	QRE141J-103Y	C RESISTOR	10kΩ 1/4W J	
R7003	QRE141J-823Y	C RESISTOR	82kΩ 1/4W J	
R7005	QRE141J-472Y	C RESISTOR	4.7kΩ 1/4W J	
R7006	QRE141J-472Y	C RESISTOR	4.7kΩ 1/4W J	
R7007	QRE141J-102Y	C RESISTOR	1kΩ 1/4W J	
R7009	QRE141J-103Y	C RESISTOR	10kΩ 1/4W J	
R7010	NRSA02J-103X	MG RESISTOR	10kΩ 1/10W J	
R7013	QRE141J-333Y	C RESISTOR	33kΩ 1/4W J	
R7014	QRE141J-333Y	C RESISTOR	33kΩ 1/4W J	
R7015	NRSA02J-102X	MG RESISTOR	1kΩ 1/10W J	
R7041	QRE141J-331Y	C RESISTOR	330Ω 1/4W J	
R7042	QRE141J-331Y	C RESISTOR	330Ω 1/4W J	
R7043	QRE141J-331Y	C RESISTOR	330Ω 1/4W J	
R7044	QRE141J-181Y	C RESISTOR	180Ω 1/4W J	
R7045	QRE141J-101Y	C RESISTOR	100Ω 1/4W J	
R7046	QRE141J-331Y	C RESISTOR	330Ω 1/4W J	
R7047	QRE141J-181Y	C RESISTOR	180Ω 1/4W J	
R7053	QRE141J-103Y	C RESISTOR	10kΩ 1/4W J	
CN7001	QGF1207C1-11	CONNECTOR	FFC/FPC (1-11)	
CN7002	QGF1209C1-04	CONNECTOR	FFC/FPC (1-4)	
DI7001	QLF0121-001	FL TUBE		
FW7001	QUM025-07A4BF	PARA RIBON WIRE		
HD1	PQ34949-1-1	FDP HOLDER(L)		
HD2	PQ34950-1-1	FDP HOLDER(R)		
OT1	LP30002-0F8A	SPACER		
S7002	QSW0381-001Z	TACT SWITCH	CH+	
S7004	QSW0381-001Z	TACT SWITCH	VCR-DVD	
S7005	QSW0381-001Z	TACT SWITCH	DUBBING	
S7012	QSW0381-001Z	TACT SWITCH	DVD-VCR	
S7013	QSW0381-001Z	TACT SWITCH	FF	
S7014	QSW0381-001Z	TACT SWITCH	PAUSE	
S7015	QSW0381-001Z	TACT SWITCH	STOP	
S7022	QSW0381-001Z	TACT SWITCH	CH-	
S7023	QSW0381-001Z	TACT SWITCH	REC MODE	
S7024	QSW0381-001Z	TACT SWITCH	REC-LINK	
S7032	QSW0381-001Z	TACT SWITCH	OPEN/CLOSE	
S7033	QSW0381-001Z	TACT SWITCH	REW	
S7034	QSW0381-001Z	TACT SWITCH	REC	
S7035	QSW0381-001Z	TACT SWITCH	PLAY	
W41	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
W43	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
W44	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	

JACK BOARD ASSEMBLY <36>

⚠ Symbol No.	Part No.	Part Name	Description	Local
PW1	LPA10248-01C3	JACK BOARD ASSY		
B4121	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
B4122	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
B4123	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
B4124	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
CN4104	QGB2027M1-10S	CONNECTOR	B-B (1-10)	
J4112	QNZ0675-001	D CONNECTOR		
K4101	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
K4102	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
K4103	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
K4104	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
OT1	QZW0021-001	PC SUPPORT		
W31	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	

LOADING MOTOR BOARD ASSEMBLY <55>

⚠ Symbol No.	Part No.	Part Name	Description	Local
PW1	LPA10158-01A2	LOADING MOTOR BOARD ASSY		

MODEL	MARK
DR-MV1SUC	A
DR-MV1SUS	B

JUNCTION BOARD ASSEMBLY <92>

⚠ Symbol No.	Part No.	Part Name	Description	Local
PW1	LPA10248-02C2	JUNCTION BOARD ASSY		
IC5501	MM1662GH-X	IC		
IC5502	MM1565AF-X	IC	5.0V	
IC5503	MM1565AF-X	IC	5.0V	
IC5504	MM1563EF-X	IC	3.4V	
IC5505	MM1563DF-X	IC	3.3V	
IC7101	MM1623XF-X	IC		
IC8001	BA15218F-XE	IC		
IC8001	or RC4558D-X	IC		
IC8002	AK5381VTP-X	IC		
IC8201	BA15218F-XE	IC		
IC8201	or RC4558D-X	IC		
IC8202	AK4381VT-X	IC		
IC8202	or AK4385VT-X	IC		
Q5501	2SD1819A/QRS/-X	TRANSISTOR		
Q5501	or 2SC4081/QRS/-X	TRANSISTOR		
Q5501	or 2PC4081/R/-X	TRANSISTOR		
Q5502	UN5111-X	DIGI TRANSISTOR		
Q5502	or DTA114EUA-X	DIGI TRANSISTOR		
Q5502	or PDTA114EU-X	DIGI TRANSISTOR		
Q5502	or RN2302-X	DIGI TRANSISTOR		
Q5502	or RT1P141M-X	DIGI TRANSISTOR		
Q5503	2SD2144S/UV/-T	TRANSISTOR		
Q5503	or 2SC3576-JVC-T	TRANSISTOR		
Q5504	UN5211-X	DIGI TRANSISTOR		
Q5504	or DTC114EUA-X	DIGI TRANSISTOR		
Q5504	or PDTC114EU-X	DIGI TRANSISTOR		
Q5504	or RN1302-X	DIGI TRANSISTOR		
Q5504	or RT1N141M-X	DIGI TRANSISTOR		
Q5505	UN5111-X	DIGI TRANSISTOR		
Q5505	or DTA114EUA-X	DIGI TRANSISTOR		
Q5505	or PDTA114EU-X	DIGI TRANSISTOR		
Q5505	or RN2302-X	DIGI TRANSISTOR		
Q5505	or RT1P141M-X	DIGI TRANSISTOR		
Q5506	UN5211-X	DIGI TRANSISTOR		
Q5506	or DTC114EUA-X	DIGI TRANSISTOR		
Q5506	or PDTC114EU-X	DIGI TRANSISTOR		
Q5506	or RN1302-X	DIGI TRANSISTOR		
Q5506	or RT1N141M-X	DIGI TRANSISTOR		
Q7101	2SB1218A/QR/-X	TRANSISTOR		
Q7101	or 2SA1576A/QR/-X	TRANSISTOR		
Q7101	or 2PA1576/R/-X	TRANSISTOR		
Q8001	2SC4081/QRS/-X	TRANSISTOR		
Q8001	or 2PC4081/R/-X	TRANSISTOR		
Q8001	or 2SD1819A/QRS/-X	TRANSISTOR		
Q8002	2SC4081/QRS/-X	TRANSISTOR		
Q8002	or 2PC4081/R/-X	TRANSISTOR		
Q8002	or 2SD1819A/QRS/-X	TRANSISTOR		
Q8003	DTC144WUA-X	DIGI TRANSISTOR		
Q8003	or PDTC144WU-X	DIGI TRANSISTOR		
Q8003	or UN521E-X	DIGI TRANSISTOR		
Q8003	or RN1309-X	DIGI TRANSISTOR		
Q8004	DTC144WUA-X	DIGI TRANSISTOR		
Q8004	or PDTC144WU-X	DIGI TRANSISTOR		
Q8004	or UN521E-X	DIGI TRANSISTOR		
Q8004	or RN1309-X	DIGI TRANSISTOR		
Q8005	DTA144WUA-X	DIGI TRANSISTOR		
Q8005	or PDTA144WU-X	DIGI TRANSISTOR		
Q8005	or UN511E-X	DIGI TRANSISTOR		
Q8005	or RN2309-X	DIGI TRANSISTOR		
D5501	1A3G-T2	SI DIODE		
D5501	or 10EDB20-T2	SI DIODE		
D5501	or ERA15-02-T2	SI DIODE		
D5502	1SS133-T2	DIODE		
D5502	or 1SS270A-T2	SI DIODE		
D5503	MTZJ27C-T2	Z DIODE		
D5503	or RD27ES/B3/-T2	Z DIODE		
C5501	NCB21AK-105X	C CAPACITOR	1uF 10V K	
C5502	QETN0JM-107Z	E CAPACITOR	100uF 6.3V M	
C5503	NCB21HK-471X	C CAPACITOR	470pF 50V K	
C5504	NCB21AK-105X	C CAPACITOR	1uF 10V K	
C5505	QETN1AM-107Z	E CAPACITOR	100uF 10V M	

⚠ Symbol No.	Part No.	Part Name	Description	Local
C5506	NCB21HK-471X	C CAPACITOR	470pF 50V K	
C5507	NCB21AK-105X	C CAPACITOR	1uF 10V K	
C5508	QETN1AM-107Z	E CAPACITOR	100uF 10V M	
C5509	NCB21HK-471X	C CAPACITOR	470pF 50V K	
C5510	NCB21AK-105X	C CAPACITOR	1uF 10V K	
C5511	QETN0JM-107Z	E CAPACITOR	100uF 6.3V M	
C5512	NCB21HK-471X	C CAPACITOR	470pF 50V K	
C5513	NCB21AK-105X	C CAPACITOR	1uF 10V K	
C5514	QETN0JM-107Z	E CAPACITOR	100uF 6.3V M	
C5515	NCB21HK-471X	C CAPACITOR	470pF 50V K	
C7101	NCB21HK-103X	C CAPACITOR	0.01uF 50V K	
C7102	NCB21HK-103X	C CAPACITOR	0.01uF 50V K	
C7103	NCF21CZ-105X	C CAPACITOR	1uF 16V Z	
C7104	QEKC1CM-226Z	E CAPACITOR	22uF 16V M	
C7105	NCF21CZ-105X	C CAPACITOR	1uF 16V Z	
C7106	NCF21CZ-105X	C CAPACITOR	1uF 16V Z	
C7107	NCF21CZ-105X	C CAPACITOR	1uF 16V Z	
C7109	NCB21HK-103X	C CAPACITOR	0.01uF 50V K	
C7112	QEKC0JM-227Z	E CAPACITOR	220uF 6.3V M	
C7123	NDC21HJ-120X	C CAPACITOR	12pF 50V J	
C7124	NDC21HJ-6R0X	C CAPACITOR	6pF 50V J	
C7141	NDC21HJ-330X	C CAPACITOR	33pF 50V J	
C7142	NDC21HJ-330X	C CAPACITOR	33pF 50V J	
C8001	NDC21HJ-101X	C CAPACITOR	100pF 50V J	
C8003	NDC21HJ-101X	C CAPACITOR	100pF 50V J	
C8005	NDC21HJ-101X	C CAPACITOR	100pF 50V J	
C8007	NDC21HJ-101X	C CAPACITOR	100pF 50V J	
C8009	QEKC1EM-106Z	E CAPACITOR	10uF 25V M	
C8010	QEKC1EM-106Z	E CAPACITOR	10uF 25V M	
C8011	QEKC1HM-475Z	E CAPACITOR	4.7uF 50V M	
C8012	NCB21HK-104X	C CAPACITOR	0.1uF 50V K	
C8013	QEKC0JM-107Z	E CAPACITOR	100uF 6.3V M	
C8014	NCB21HK-104X	C CAPACITOR	0.1uF 50V K	
C8015	QEKC0JM-107Z	E CAPACITOR	100uF 6.3V M	
C8016	NCB21HK-104X	C CAPACITOR	0.1uF 50V K	
C8051	QEKC0JM-337Z	E CAPACITOR	330uF 6.3V M	
C8052	QEKC1CM-107Z	E CAPACITOR	100uF 16V M	
C8053	NCB21HK-104X	C CAPACITOR	0.1uF 50V K	
C8054	QEKC0JM-337Z	E CAPACITOR	330uF 6.3V M	
C8055	NCB21HK-104X	C CAPACITOR	0.1uF 50V K	
C8056	QEKC1CM-107Z	E CAPACITOR	100uF 16V M	
C8057	QEKC1CM-107Z	E CAPACITOR	100uF 16V M	
C8201	QEKC1CM-476Z	E CAPACITOR	47uF 16V M	
C8202	NCB21HK-471X	C CAPACITOR	470pF 50V K	
C8203	NCB21HK-471X	C CAPACITOR	470pF 50V K	
C8204	NCB21HK-472X	C CAPACITOR	4700pF 50V K	
C8205	NCB21HK-471X	C CAPACITOR	470pF 50V K	
C8206	NCB21HK-472X	C CAPACITOR	4700pF 50V K	
C8207	NCB21HK-471X	C CAPACITOR	470pF 50V K	
C8208	QEKC1CM-476Z	E CAPACITOR	47uF 16V M	
C8209	NCB21HK-104X	C CAPACITOR	0.1uF 50V K	
C8210	QEKC0JM-337Z	E CAPACITOR	330uF 6.3V M	
C8211	NCB21HK-104X	C CAPACITOR	0.1uF 50V K	
C8231	QEKC0JM-107Z	E CAPACITOR	100uF 6.3V M	
C8232	NCB21HK-104X	C CAPACITOR	0.1uF 50V K	
R5501	QRE121J-821Y	C RESISTOR	820Ω 1/2W J	
R5502	QRE121J-681Y	C RESISTOR	680Ω 1/2W J	
R5503	NRSA02J-562X	MG RESISTOR	5.6kΩ 1/10W J	
R5504	NRSA02J-102X	MG RESISTOR	1kΩ 1/10W J	
R5505	NRSA02J-222X	MG RESISTOR	2.2kΩ 1/10W J	
R7101	NRSA02J-122X	MG RESISTOR	1.2kΩ 1/10W J	
R7102	NRSA02J-102X	MG RESISTOR	1kΩ 1/10W J	
R7145	NRSA02J-200X	MG RESISTOR	20Ω 1/10W J	
R7146	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
R7147	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
R7148	NRSA02J-200X	MG RESISTOR	20Ω 1/10W J	
R7149	NRSA02J-200X	MG RESISTOR	20Ω 1/10W J	
R7150	NRSA02J-200X	MG RESISTOR	20Ω 1/10W J	
R7151	NRSA02J-200X	MG RESISTOR	20Ω 1/10W J	
R7161	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
R7162	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
R8001	NRSA02J-103X	MG RESISTOR	10kΩ 1/10W J	
R8002	NRSA02J-103X	MG RESISTOR	10kΩ 1/10W J	
R8003	NRSA02J-103X	MG RESISTOR	10kΩ 1/10W J	
R8004	NRSA02J-103X	MG RESISTOR	10kΩ 1/10W J	
R8005	NRSA02J-103X	MG RESISTOR	10kΩ 1/10W J	
R8006	NRSA02J-103X	MG RESISTOR	10kΩ 1/10W J	

MODEL	MARK
DR-MV1SUC	A
DR-MV1SUS	B

⚠ Symbol No.	Part No.	Part Name	Description	Local
R8007	NRSA02J-103X	MG RESISTOR	10kΩ 1/10W J	
R8008	NRSA02J-103X	MG RESISTOR	10kΩ 1/10W J	
R8009	NRSA02J-152X	MG RESISTOR	1.5kΩ 1/10W J	
R8010	NRSA02J-152X	MG RESISTOR	1.5kΩ 1/10W J	
R8011	NRSA02J-152X	MG RESISTOR	1.5kΩ 1/10W J	
R8012	NRSA02J-152X	MG RESISTOR	1.5kΩ 1/10W J	
R8013	NRSA02J-470X	MG RESISTOR	47Ω 1/10W J	
R8014	NRSA02J-470X	MG RESISTOR	47Ω 1/10W J	
R8015	NRSA02J-470X	MG RESISTOR	47Ω 1/10W J	
R8016	NRSA02J-470X	MG RESISTOR	47Ω 1/10W J	
R8017	NRSA02J-103X	MG RESISTOR	10kΩ 1/10W J	
R8018	NRSA02J-123X	MG RESISTOR	12kΩ 1/10W J	
R8019	NRSA02J-223X	MG RESISTOR	22kΩ 1/10W J	
R8051	NRSA02J-221X	MG RESISTOR	220Ω 1/10W J	
R8052	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
R8201	NRSA02J-471X	MG RESISTOR	470Ω 1/10W J	
R8202	NRSA02J-273X	MG RESISTOR	27kΩ 1/10W J	
R8203	NRSA02J-512X	MG RESISTOR	5.1kΩ 1/10W J	
R8204	NRSA02J-121X	MG RESISTOR	120Ω 1/10W J	
R8205	NRSA02J-121X	MG RESISTOR	120Ω 1/10W J	
R8206	NRSA02J-512X	MG RESISTOR	5.1kΩ 1/10W J	
R8207	NRSA02J-512X	MG RESISTOR	5.1kΩ 1/10W J	
R8208	NRSA02J-121X	MG RESISTOR	120Ω 1/10W J	
R8209	NRSA02J-121X	MG RESISTOR	120Ω 1/10W J	
R8210	NRSA02J-512X	MG RESISTOR	5.1kΩ 1/10W J	
R8211	NRSA02J-273X	MG RESISTOR	27kΩ 1/10W J	
R8212	NRSA02J-471X	MG RESISTOR	470Ω 1/10W J	
R8213	NRSA02J-470X	MG RESISTOR	47Ω 1/10W J	
R8214	NRSA02J-470X	MG RESISTOR	47Ω 1/10W J	
R8215	NRSA02J-470X	MG RESISTOR	47Ω 1/10W J	
R8216	NRSA02J-470X	MG RESISTOR	47Ω 1/10W J	
R8217	NRSA02J-103X	MG RESISTOR	10kΩ 1/10W J	
R8219	NRSA02J-432X	MG RESISTOR	4.3kΩ 1/10W J	
R8220	NRSA02J-432X	MG RESISTOR	4.3kΩ 1/10W J	
R8221	NRSA02J-432X	MG RESISTOR	4.3kΩ 1/10W J	
R8222	NRSA02J-432X	MG RESISTOR	4.3kΩ 1/10W J	
R8231	NRSA02J-222X	MG RESISTOR	2.2kΩ 1/10W J	
R8232	NRSA02J-222X	MG RESISTOR	2.2kΩ 1/10W J	
R8233	NRSA02J-102X	MG RESISTOR	1kΩ 1/10W J	
L7101	QQL29BJ-100Z	P COIL	0.40Ω 10uH J	
L7102	QQL071J-6R8Y	COIL	1.20Ω 6.8uH J	
L8001	QQL29BJ-220Z	P COIL	0.65Ω 22uH J	
L8002	QQL29BJ-220Z	P COIL	0.65Ω 22uH J	
B7101	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
B7107	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
B7112	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
B7113	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
B7115	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
B7118	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
CN5501	QGB1231M1-15	CONNECTOR	B-B (1-15)	
CN7102	QGB1231M1-15	CONNECTOR	B-B (1-15)	
CN7103	QGF1207C1-04	CONNECTOR	FFC/FPC (1-4)	
CN7104	QGF1207C1-04	CONNECTOR	FFC/FPC (1-4)	
CN7105	QGF1207C1-04	CONNECTOR	FFC/FPC (1-4)	
CN7106	QGF1016C3-04	CONNECTOR	FFC/FPC (1-4)	
CN7107	QGF1207C1-13	CONNECTOR	FFC/FPC (1-13)	
CN7108	QGB2027M6-28S	CONNECTOR	B-B (1-28)	
CN7109	QGB2027M6-28S	CONNECTOR	B-B (1-28)	
CN8001	QGB1231M1-11	CONNECTOR	B-B (1-11)	
K7101	NQR0129-002X	FERRITE BEADS		
K8001	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
K8002	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
K8201	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
K8202	NRSA02J-4R7X	MG RESISTOR	4.7Ω 1/10W J	
W1	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
W2	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
W5	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
W6	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
W9	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
W10	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
W11	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
W12	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
W13	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
W14	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	

JACK BOARD ASSEMBLY <94>

⚠ Symbol No.	Part No.	Part Name	Description	Local
PW1	LPA10243-01C2	JACK BOARD ASSY		
IC8501	74VHCT08ASJ-X	IC		
IC8501 or	SN74AHCT08NS-X	IC		
C8401	QEKJ0JM-107Z	E CAPACITOR	100uF 6.3V M	
C8402	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C8501	QEKJ0JM-107Z	E CAPACITOR	100uF 6.3V M	
C8502	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C8503	QEKJ1HM-475Z	E CAPACITOR	4.7uF 50V M	
C8504	NDC31HJ-151X	C CAPACITOR	150pF 50V J	
C8506	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
R8501	NRSA63J-4R7X	MG RESISTOR	4.7Ω 1/16W J	
R8502	NRSA63J-301X	MG RESISTOR	300Ω 1/16W J	
R8503	NRSA63J-301X	MG RESISTOR	300Ω 1/16W J	
R8504	NRSA63J-820X	MG RESISTOR	82Ω 1/16W J	
R8505	NRSA63J-100X	MG RESISTOR	10Ω 1/16W J	
R8506	NRSA63J-100X	MG RESISTOR	10Ω 1/16W J	
L8501	QQL071J-1R0Y	COIL	0.46Ω 1uH J	
CN8501	QGD2503C1-03	CONNECTOR	(1-3)	
J8401	GP1FA313TZ	OPT TRANSMITTER	OPTICAL	
J8501	QNN0096-001	PIN JACK	COAXIAL	
K8401	NQR0227-004X	FERRITE BEADS		
K8501	NQR0227-004X	FERRITE BEADS		

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DIVISION OF JVC AMERICAS CORP.
www.jvcservice.com(US Only)

JVC CANADA INC.
Head office : 21 Finchdene Square Scarborough, Ontario M1X 1A7 (416)293-1311

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